

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:  
**September**  
**2012**

**Edmund G. Brown Jr.**  
Governor  
State of California

**John Laird**  
Secretary for Resources  
The Resources Agency

**Mark Cowin**  
Director  
Department of Water Resources

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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**JOHN LAIRD, Secretary for Resources**

Department of Water Resources  
**MARK COWIN, Director**

Department of Water Resources  
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The organization shown above represents staff and positions relevant to this report as of month of publication on February, 2014. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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## **MONTHLY HIGHLIGHTS**

The following activities, actions, and conditions that affected State Water Project operations during September 2012:

Statewide precipitation was about 75 percent of average for the 2011 - 2012 water-year through September 30. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at: [“http://cdec.water.ca.gov/snow\\_rain.html”](http://cdec.water.ca.gov/snow_rain.html).

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State. September snowpack data is not available.

Cumulative unimpaired runoff for the Sacramento River Region for the 2011 - 2012 water-year was 11.8 maf, 65 percent of average. Statewide runoff for the 2011 - 2012 water-year was 60 percent of average.

Statewide reservoir storage was 95 percent of average to date. Total storage in major SWP reservoirs at the end of September was about 2.79 maf compared to 4.50 maf at this time in 2011. On September 30, end-of-month storage at Lake Oroville was about 1.97 maf, as compared to 3.04 maf at this time in 2011. The State share of San Luis Reservoir's end-of-month storage was about 389 taf, as compared with 874 taf at this time in 2011. The combined storage in SWP's southern reservoirs was about 433 taf, compared with about 585 taf at this time in 2011.

SWP water deliveries to date through September were about 3.31 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2011 were 3.93 maf.

COA conditions remained “Balanced” with accounting throughout September. The end-of-month USBR COA balance was 42,498 cfs in favor of the USBR.

There were five measurable earthquakes within the vicinity of the SWP during September; however, no facilities were found to meet inspection criteria. On September 9, a lightning storm forced Greenspot and Crafton Hills plants out of service for 15 minutes. On September 16, units at Edmonston were shut down due to cooling water issues. The issues were resolved within the day.

**Table 1. Antelope Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**September 2012**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Aug 31	4997.78	18,829								
1	4997.73	18,787	-42	20	0	0	0	7	27	
2	4997.68	18,745	-42	20	0	0	0	7	27	
3	4997.62	18,695	-50	20	0	0	0	7	27	
4	4997.57	18,654	-41	20	0	0	0	7	27	
5	4997.53	18,620	-34	20	0	0	0	7	27	
6	4997.46	18,562	-58	20	0	0	0	7	27	
7	4997.41	18,520	-42	20	0	0	0	6	26	
8	4997.36	18,479	-41	20	0	0	0	6	26	
9	4997.31	18,438	-41	20	0	0	0	6	26	
10	4997.26	18,396	-42	20	0	0	0	6	26	
11	4997.20	18,347	-49	20	0	0	0	6	26	
12	4997.15	18,305	-42	20	0	0	0	6	26	
13	4997.09	18,256	-49	20	0	0	0	6	26	
14	4997.04	18,215	-41	20	0	0	0	6	26	
15	4996.98	18,166	-49	20	0	0	0	6	26	
16	4996.92	18,116	-50	20	0	0	0	6	26	
17	4996.87	18,075	-41	20	0	0	0	6	26	
18	4996.82	18,035	-40	20	0	0	0	6	26	
19	4996.76	17,986	-49	20	0	0	0	6	26	
20	4996.71	17,945	-41	20	0	0	0	6	26	
21	4996.66	17,904	-41	20	0	0	0	6	26	
22	4996.61	17,863	-41	20	0	0	0	6	26	
23	4996.55	17,815	-48	20	0	0	0	6	26	
24	4996.50	17,774	-41	20	0	0	0	6	26	
25	4996.45	17,734	-40	20	0	0	0	6	26	
26	4996.40	17,693	-41	20	0	0	0	6	26	
27	4996.35	17,653	-40	20	0	0	0	6	26	
28	4996.30	17,613	-40	20	0	0	0	6	26	
29	4996.24	17,564	-49	20	0	0	0	6	26	
30	4996.19	17,524	-40	20	0	0	0	6	26	
Total cfs-days				---	600	0	0	186	786	
Total ac-ft				-1,305	1,190	0	0	368	1,558	
									253	

**Table 2. Frenchman Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**September 2012**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Right	Water Supply Contract					
Aug 31	5573.08	34,894									
1	5573.03	34,835	-59	1	26	0	0	11	38	8	
2	5572.98	34,775	-60	1	26	0	0	11	38	8	
3	5572.92	34,705	-70	1	26	0	0	11	38	3	
4	5572.87	34,646	-59	1	26	0	0	11	38	8	
5	5572.80	34,563	-83	1	26	0	0	11	38	-4	
6	5572.74	34,492	-71	0	31	0	0	11	42	6	
7	5572.68	34,422	-70	0	21	0	0	11	32	-3	
8	5572.63	34,363	-59	0	21	0	0	11	32	2	
9	5572.59	34,316	-47	0	21	0	0	11	32	8	
10	5572.53	34,246	-70	1	16	0	0	11	28	-7	
11	5572.49	34,199	-47	1	16	0	0	11	28	4	
12	5572.43	34,129	-70	2	7	0	0	11	20	-15	
13	5572.41	34,106	-23	2	7	0	0	11	20	9	
14	5572.41	34,106	0	2	7	0	0	11	20	20	
15	5572.29	33,966	-140	2	7	0	0	11	20	-50	
16	5572.27	33,943	-23	2	7	0	0	11	20	9	
17	5572.24	33,908	-35	2	7	0	0	11	20	2	
18	5572.26	33,931	23	2	7	0	0	11	20	32	
19	5572.15	33,803	-128	2	7	0	0	11	20	-44	
20	5572.13	33,780	-23	2	7	0	0	11	20	9	
21	5572.09	33,734	-46	2	7	0	0	11	20	-3	
22	5572.07	33,711	-23	2	7	0	0	11	20	9	
23	5572.02	33,653	-58	2	10	0	0	11	23	-6	
24	5571.99	33,618	-35	2	10	0	0	11	23	5	
25	5572.00	33,630	12	2	10	0	0	11	23	29	
26	5571.95	33,572	-58	2	10	0	0	11	23	-6	
27	5571.97	33,595	23	2	10	0	0	11	23	35	
28	5571.92	33,537	-58	2	7	0	0	11	20	-9	
29	5571.87	33,480	-57	2	7	0	0	11	20	-9	
30	5571.76	33,353	-127	2	7	0	0	11	20	-44	
Total cfs-days				---	45	404	0	0	0	449	
Total ac-ft				-1,541	89	801	0	0	0	891	
										-650	

1/ Last Chance Creek Water District.

**Table 3. Lake Davis**

## Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**September 2012**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
Aug 31	5768.37	59,935									
1	5768.35	59,868	-67	7.50	2	0	0	28	37	3	
2	5768.31	59,735	-133	7.50	2	0	0	28	37	-30	
3	5768.29	59,668	-67	7.50	2	0	0	28	37	3	
4	5768.27	59,601	-67	7.50	2	0	0	28	37	3	
5	5768.23	59,468	-133	7.50	2	0	0	28	37	-30	
6	5768.20	59,368	-100	7.50	2	0	0	28	37	-13	
7	5768.19	59,335	-33	7.50	2	0	0	28	37	21	
8	5768.16	59,236	-99	7.50	2	0	0	28	37	-13	
9	5768.14	59,169	-67	7.50	2	0	0	28	37	3	
10	5768.13	59,136	-33	7.50	2	0	0	28	37	21	
11	5768.11	59,070	-66	7.50	2	0	0	28	37	4	
12	5768.08	58,970	-100	7.50	2	0	0	28	37	-13	
13	5768.05	58,871	-99	7.50	2	0	0	28	37	-13	
14	5768.02	58,772	-99	7.50	2	0	0	28	37	-13	
15	5768.00	58,706	-66	7.50	2	0	0	28	37	4	
16	5767.97	58,607	-99	7.50	2	0	0	28	37	-13	
17	5767.93	58,475	-132	7.50	2	0	0	28	37	-29	
18	5767.91	58,409	-66	7.50	2	0	0	28	37	4	
19	5767.90	58,376	-33	7.70	2	0	0	28	37	21	
20	5767.89	58,343	-33	7.70	2	0	0	28	37	21	
21	5767.86	58,245	-98	7.70	2	0	0	28	37	-12	
22	5767.83	58,146	-99	7.70	2	0	0	28	37	-12	
23	5767.81	58,080	-66	7.70	2	0	0	28	37	4	
24	5767.78	57,982	-98	7.50	2	0	0	28	37	-12	
25	5767.76	57,916	-66	7.50	2	0	0	28	37	4	
26	5767.75	57,884	-32	7.50	2	0	0	28	37	21	
27	5767.73	57,818	-66	7.50	2	0	0	28	37	4	
28	5767.71	57,753	-65	7.50	2	0	0	28	37	4	
29	5767.69	57,687	-66	7.50	2	0	0	28	37	4	
30	5767.68	57,655	-32	7.50	2	0	0	28	37	21	
Total cfs-days				---	226	60	0	0	833	1,119	
Total ac-ft				-2,280	448	119	0	0	1,653	2,220	
										-60	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

2/ Includes 30 AF Plumas County and 49 AF Grizzly Ranch.

**Table 4. Lake Oroville**

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

**September 2012**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Aug 31	803.29	2,229,076										
	1	802.23	2,216,999	-12,077	12,668	26	0	0	241	0	12,935	0
	2	801.23	2,205,648	-11,351	12,684	26	0	0	299	0	13,009	0
	3	800.20	2,193,999	-11,649	12,638	26	0	0	299	0	12,963	0
	4	799.17	2,182,393	-11,606	12,675	26	0	0	122	0	12,823	0
	5	798.05	2,169,822	-12,571	12,705	25	0	0	333	0	13,063	0
	6	796.99	2,157,972	-11,850	12,711	24	0	0	212	0	12,947	0
	7	795.91	2,145,945	-12,027	12,787	24	0	0	256	0	13,067	0
	8	794.84	2,134,076	-11,869	12,803	24	0	0	210	0	13,037	0
	9	793.73	2,121,813	-12,263	12,820	24	0	0	209	0	13,053	0
	10	792.65	2,109,929	-11,884	12,828	24	0	0	319	0	13,171	0
	11	791.54	2,097,765	-12,164	12,833	24	0	0	236	0	13,093	0
	12	790.45	2,085,868	-11,897	12,820	24	0	0	250	0	13,094	0
	13	789.38	2,074,236	-11,632	12,818	24	0	0	234	0	13,076	0
	14	788.28	2,062,326	-11,910	12,784	24	0	0	263	0	13,071	0
	15	787.31	2,051,864	-10,462	12,787	24	0	0	248	0	13,059	0
	16	786.27	2,040,690	-11,174	12,857	24	0	0	203	0	13,084	0
	17	785.58	2,033,300	-7,390	8,834	24	0	0	383	0	9,241	0
	18	785.18	2,029,025	-4,275	7,705	24	0	0	209	0	7,938	0
	19	784.77	2,024,649	-4,376	7,721	24	0	0	200	0	7,945	0
	20	784.18	2,018,365	-6,284	7,705	24	0	0	172	0	7,901	0
	21	783.77	2,014,006	-4,359	7,463	24	0	0	193	0	7,680	0
	22	783.32	2,009,229	-4,777	7,770	24	0	0	186	0	7,980	0
	23	782.94	2,005,202	-4,027	7,740	24	0	1	179	0	7,944	0
	24	782.58	2,001,393	-3,809	7,742	24	0	1	321	0	8,088	0
	25	782.18	1,997,166	-4,227	7,745	24	0	1	221	0	7,991	0
	26	781.74	1,992,523	-4,643	7,748	24	0	1	214	0	7,987	0
	27	781.44	1,989,363	-3,160	7,753	24	0	1	192	0	7,970	0
	28	781.05	1,985,259	-4,104	7,757	24	0	1	283	0	8,065	0
	29	780.60	1,980,532	-4,727	8,274	24	0	1	248	0	8,547	0
	30	780.24	1,976,756	-3,776	7,763	24	1	1	283	0	8,072	0
<b>Total</b>				-252,320	313,938	729	1	8	7,218	0	321,894	0
1/ Includes bypass flows.												
2/ South Feather Water and Power Agency.												
3/ Evaporation will be zero for days when there is precipitation or heavy overcast.												
4/ Does not include pumpback.												

1/ Includes bypass flows.

2/ South Feather Water and Power Agency.

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation  
(in acre-feet except as noted)

**September 2012**

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Aug 31	23,320										
1	23,562	242	12,668	479	0	12,350	5	8	1,436	0	894
2	23,853	291	12,684	365	0	12,217	5	8	1,438	0	910
3	23,853	0	12,638	400	0	12,494	5	8	1,444	0	913
4	24,064	211	12,675	400	0	12,348	5	8	1,450	0	947
5	24,297	233	12,705	411	0	12,310	5	8	1,460	0	900
6	24,204	-93	12,711	426	0	12,744	5	8	1,377	0	904
7	24,148	-56	12,787	477	0	12,842	5	8	1,323	0	858
8	24,104	-44	12,803	471	0	12,834	5	8	1,321	0	850
9	24,154	50	12,820	478	0	12,768	5	8	1,325	0	858
10	24,119	-35	12,828	482	0	12,884	5	8	1,325	0	877
11	24,098	-21	12,833	449	0	12,922	5	8	1,325	0	957
12	24,316	218	12,820	481	0	12,736	5	8	1,325	0	991
13	24,266	-50	12,818	480	0	12,994	5	8	1,325	0	984
14	24,139	-127	12,784	480	0	13,032	5	8	1,325	0	979
15	23,949	-190	12,787	479	0	13,092	5	8	1,327	0	976
16	24,026	77	12,857	422	0	12,878	5	8	1,331	0	1,020
17	24,260	234	8,834	475	0	7,940	5	8	1,327	0	205
18	24,186	-74	7,705	475	0	7,928	5	8	1,331	0	1,018
19	24,142	-44	7,721	474	0	7,398	5	9	1,333	0	506
20	24,059	-83	7,705	436	0	7,392	5	9	1,337	0	519
21	24,230	171	7,463	481	0	6,908	5	9	1,335	0	484
22	24,296	66	7,770	432	0	7,850	5	9	1,331	0	1,059
23	24,333	37	7,740	481	0	7,903	5	9	1,331	0	1,064
24	24,308	-25	7,742	480	0	8,043	5	9	1,329	0	1,139
25	24,139	-169	7,745	480	0	8,199	5	9	1,337	0	1,156
26	24,039	-100	7,748	480	0	8,096	5	9	1,341	0	1,123
27	24,130	91	7,753	480	0	7,306	5	9	1,339	0	517
28	24,236	106	7,757	480	0	7,290	5	9	1,339	0	512
29	24,042	-194	8,274	386	0	8,149	4	9	746	0	54
30	23,860	-182	7,763	424	0	7,492	4	1	216	0	-656
Total		540	313,938	13,644	0	311,339	148	244	38,829	0	23,518

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

September 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Aug 31	134.23	47,631											
	1	134.12	47,195	-436	12,350	2,440	10	464	1,012	8,668	0	-192	10,104
	2	133.99	46,681	-514	12,217	2,400	10	464	972	8,688	0	-197	10,126
	3	133.92	46,405	-276	12,494	2,400	10	462	972	8,688	0	-238	10,132
	4	133.87	46,208	-197	12,348	2,341	8	464	855	8,688	0	-189	10,138
	5	133.91	46,365	157	12,310	2,222	7	415	672	8,688	0	-149	10,148
	6	134.08	47,037	672	12,744	2,142	6	387	577	8,688	0	-272	10,065
	7	134.23	47,631	594	12,842	2,063	5	333	504	9,184	0	-159	10,507
	8	134.32	47,990	359	12,834	1,968	4	296	456	9,679	0	-72	11,000
	9	134.38	48,230	240	12,768	1,904	4	282	442	9,679	0	-217	11,004
	10	134.48	48,631	401	12,884	1,872	2	282	377	9,679	0	-271	11,004
	11	134.65	49,315	684	12,922	1,724	0	250	282	9,679	0	-303	11,004
	12	134.81	49,964	649	12,736	1,634	0	236	236	9,679	0	-302	11,004
	13	135.09	51,108	1,144	12,994	1,535	0	182	206	9,679	0	-248	11,004
	14	135.40	52,389	1,281	13,032	1,442	0	159	177	9,679	0	-294	11,004
	15	135.72	53,725	1,336	13,092	1,424	0	103	145	9,679	0	-405	11,006
	16	135.99	54,863	1,138	12,878	1,424	0	99	135	9,679	0	-403	11,010
	17	135.68	53,557	-1,306	7,940	1,398	0	99	125	8,232	0	608	9,559
	18	135.53	52,930	-627	7,928	1,351	0	73	107	6,724	0	-300	8,055
	19	135.39	52,347	-583	7,398	1,293	0	16	105	6,704	0	137	8,037
	20	135.28	51,891	-456	7,392	1,226	0	0	107	6,724	0	209	8,061
	21	135.06	50,985	-906	6,908	1,194	0	0	107	6,704	0	191	8,039
	22	134.93	50,453	-532	7,850	1,192	0	0	109	6,704	0	-377	8,035
	23	134.80	49,923	-530	7,903	1,192	0	0	107	6,704	0	-430	8,035
	24	134.66	49,356	-567	8,043	1,192	0	0	234	6,704	0	-480	8,033
	25	134.54	48,872	-484	8,199	1,166	0	0	373	6,704	0	-440	8,041
	26	134.40	48,310	-562	8,096	1,131	0	0	397	6,704	0	-426	8,045
	27	134.20	47,512	-798	7,306	1,135	0	0	399	6,724	0	154	8,063
	28	134.02	46,800	-712	7,290	1,135	0	0	424	6,704	0	261	8,043
	29	133.88	46,247	-553	8,149	1,135	0	0	434	6,704	0	-429	7,450
	30	133.75	45,736	-511	7,492	1,135	0	0	430	6,704	0	266	6,920
Total				-1,895	311,339	47,810	66	5,070	11,480	243,847	0	-4,961	282,676

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

**Table 7. Oroville-Thermalito Complex**

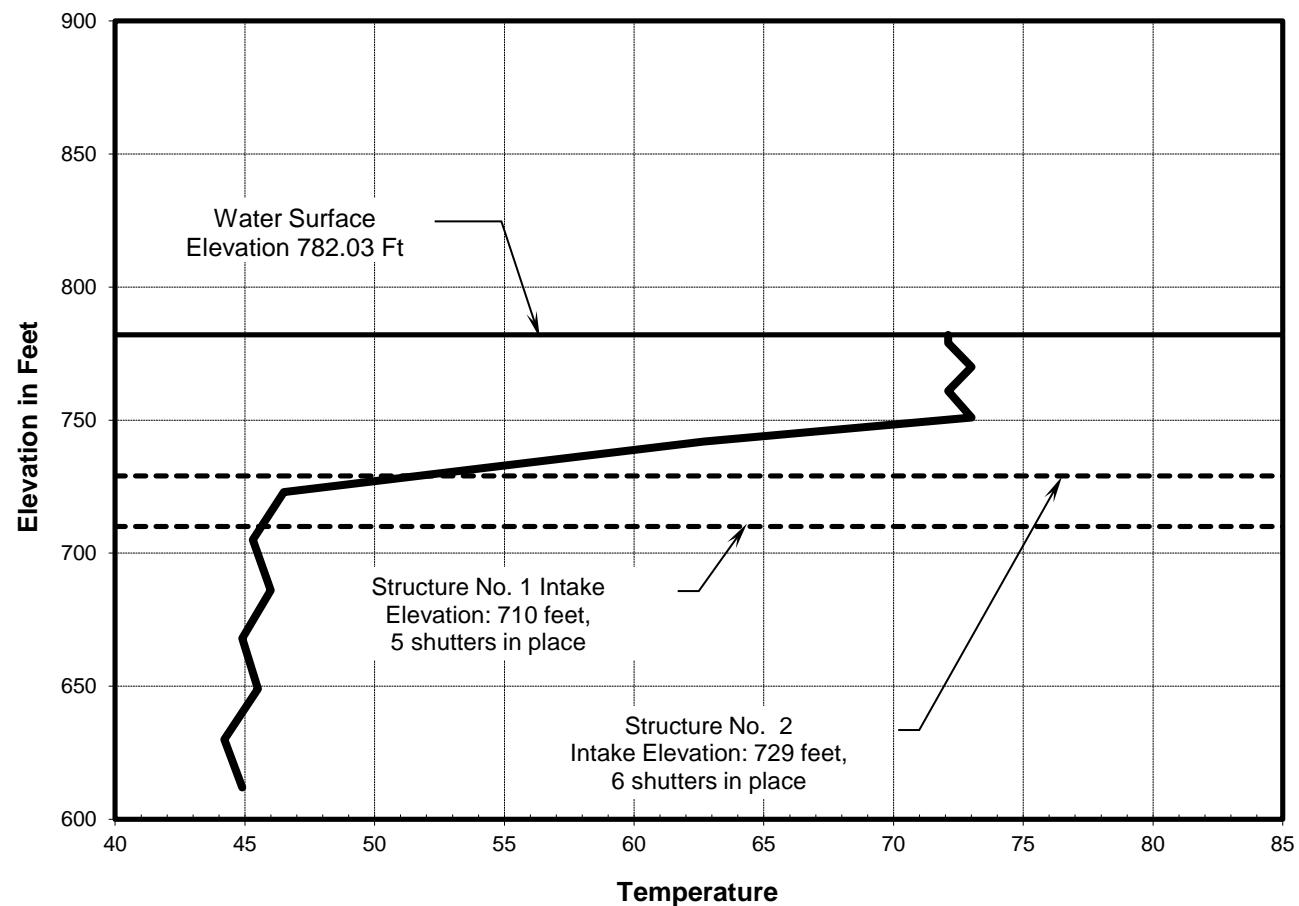
Water Temperature Data

(in degrees Fahrenheit)

**September 2012**

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	60.2	55.7
2	61.1	57.2
3	61.1	57.5
4	61.4	53.9
5	61.1	51.1
6	60.7	50.9
7	60.9	51.5
8	59.4	51.8
9	57.5	51.9
10	58.0	52.4
11	58.0	53.2
12	57.5	53.8
13	57.5	54.4
14	57.1	55.1
15	56.9	52.6
16	58.3	52.0
17	57.9	52.3
18	57.7	51.4
19	58.0	51.0
20	57.8	51.0
21	57.9	51.2
22	58.8	51.5
23	58.1	51.5
24	58.1	51.7
25	59.1	52.1
26	58.0	52.2
27	58.8	52.3
28	58.7	52.8
29	57.9	53.0
30	58.9	53.2

**Lake Oroville Temperature Profile  
on September 26, 2012**



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

(In acre-feet)

**September 2012**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Permit	Article 21	Article 56	Settlement Water	
	No.	Structure	Mile								
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	6,461	273	273	308	100	1,819	
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis AFB	273						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	408						
				Solano County Water Agency Fairfield / Vacaville 42"	2,119						
			17.00	Solano County Water Agency Central Solano	Stub						
		Cordelia Forebay	21.23		0						
3A	2	Cordelia Pumping Plant & Cordelia Spillway	21.30		3,542	1/ 692	2/ 5	935	200	935	
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	697						
				Solano County Water Agency Benicia	1,135						
		Cordelia Surge Tank	23.33		0						
		Creston Surge Tank Connection	25.65		0						
			26.95	Napa County Flood Control & WCD American Canyon 2	30		30	1,356	100	1,356	
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
3B	2	Napa Terminal Tank	27.58	City of Napa	1,356	224	100	1,356	100	1,356	
			27.60	Napa County Flood Control & WCD American Canyon 1	324						

1/ This includes 10 AF of Napa Co. FC&WCD TBLA through Solano Co.'s turnout (Reach 3A) for delivery to American Canyon.

2/ Solano Permit water sold to American Canyon, delivered to Cordelia Forebay and pumped to American Canyon via Reach 3B.

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

**September 2012**

Date	North Bay Aqueduct		California Aqueduct				South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		DMC/CA Intertie (DCI)		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP	Pumped	Released		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	210	114	10,279	9,255	558	0	715	119	0	0
2		113	10,920	9,896	701	0	628	112	0	0
3		115	10,425	9,401	700	0	629	112	0	0
4		122	13,272	12,248	602	0	581	112	0	0
5		117	13,873	12,849	632	0	586	112	0	0
6		116	13,733	12,709	609	0	623	113	0	0
7		113	14,013	12,989	487	0	762	113	0	0
8		108	14,013	12,989	635	0	744	113	0	0
9		120	13,957	12,933	705	0	596	113	0	0
10		133	12,712	11,688	630	0	586	113	0	0
11		130	10,814	9,790	624	0	510	43	0	0
12		125	10,894	10,894	648	0	498	66	0	0
13		113	10,768	10,768	603	0	555	108	0	0
14		118	10,770	10,770	705	0	559	37	0	0
15		114	10,597	10,597	705	0	506	2	0	0
16		131	7,821	7,821	710	0	535	0	0	0
17		120	7,579	7,579	190	0	495	0	0	0
18		114	7,791	7,791	0	0	531	0	0	0
19		130	6,617	6,617	0	0	586	0	0	0
20		119	6,608	6,608	0	0	577	0	0	0
21		122	6,884	6,884	0	0	586	0	0	0
22		131	6,804	6,804	0	0	535	0	0	0
23		100	7,078	7,078	0	0	562	0	0	0
24		121	6,863	6,863	0	0	586	0	0	0
25		115	7,392	7,392	0	0	470	0	0	0
26		109	7,816	7,816	138	0	86	0	0	247
27		120	6,971	6,971	559	0	123	0	0	251
28		116	6,983	6,983	711	0	446	0	0	147
29		114	6,762	6,762	719	0	602	0	0	134
30		109	6,889	6,889	724	0	575	0	0	128
Total	6,461	3,542	287,898	276,634	13,295	0	16,373	1,388	0	907

**Table 10. Clifton Court Forebay**  
Daily Operation of Gates

September 2012

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1	00:01	05:15	08:00	13:45	16:45	19:05					10,893
2	00:01	06:15	09:15	15:00							10,898
3	00:01	02:45	05:45	18:45							10,892
4	00:01	03:30	06:30	19:30	22:15						13,867
5		04:15	07:15	20:00	22:45						13,866
6		05:00	08:00	20:45							13,859
7	00:01	06:00	09:00	21:40							14,230
8	00:15	07:00	10:00	21:10							14,224
9	01:15	08:15	11:15	22:25							13,859
10	02:15	09:15	12:15	21:25							12,873
11	00:01	01:15	03:15	10:00	13:00						10,900
12		02:00	04:15	10:45	13:45	21:30					10,892
13	00:01	02:45	05:15	11:15	14:15	22:15					10,887
14	00:01	03:30	06:00	12:00	15:00	22:00					9,895
15	00:01	04:15	06:45	12:30	15:30	21:45					8,923
16	00:01	04:45	07:30	13:00							7,910
17	00:01	01:30	04:30	15:16							7,905
18	00:01	02:15	05:15	17:00							7,907
19	00:01	03:15	06:15	18:00							7,915
20	00:01	04:00	07:00	13:15							6,938
21	00:01	05:00	08:00	14:45							6,921
22	00:01	06:15	09:15	15:00							6,931
23	00:45	07:30	10:30	12:14	14:05	16:40					6,935
24	02:00	08:30	11:30	14:00	18:24	21:12					7,916
25	00:01	01:00	03:15	09:30	12:30	17:05					7,923
26	00:01	02:00	04:30	10:30	13:30	16:45					7,914
27	00:01	03:00	05:30	11:15	14:15	15:45					6,924
28	06:15	12:00									6,931
29	00:01	00:30	03:30	12:00							6,941
30	00:01	01:00	04:00	10:45							6,937
Total inflow for the month in AF:											291,806

**Table 11. Governor Edmund G. Brown California Aqueduct**

Delta Field Division, Monthly Deliveries

(In acre-feet)

**September 2012**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		No.			Table A	USBR	Local	Loan Water	Dry Year Purchase			
	No.	Structure	Mile										
1A			1.83	Byron-Bethany I.D.	4,036								
1	1	Banks Pumping Plant	3.32		287,898			12					
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aqueduct)	16,373								
		Check No. 1	5.95		0								
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0								
	2	Delta Mendota Canal - California Aqueduct Intertie (DCI)	9.1	Inflow to California Aqueduct from Delta Mendota Canal	1/ 13,295								
				Outflow to Delta Mendota Canal from California Aqueduct	0								
	2	Check No. 2	12.01										
	3		12.47	Musco Olive	12								
		Check No. 3	18.29										
2A	4		22.16	Tracy Golf & Country Club	0								
		Check No. 4	23.99										
	5	Check No. 5	29.73										
	6	Check No. 6	34.24										
	7		35.22	Turlock Fruit Company Inflow	0								
		Check No. 7	39.91										
	8		42.46	Oak Flat Water District-A	49		49						
			42.9	Western Hills WD	142								
			43.81	Oak Flat Water District-B	192								
			44.64	Oak Flat Water District-C	72								
2B	Check No. 8		45.97										
	9		46.18	Oak Flat Water District-D	76		76						
				Oak Flat Totals:	389								
	Check No. 9		51.3										
	10	Check No. 10	56.86										
	11	Check No. 11	61.4										
	12		66.14	Veteran's Cemetery	30		30						
		Check No. 12	66.71		283,750								

1/ Total USBR pumping from DMC to California Aqueduct through DCI.

**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

**September 2012**

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	Article 56	Others	Local	Recreation	
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	16,373	5	16	96	1,000		
			3.17	Granite - Vasco Rd. (Temp.)	0						
			3.18	Oakland Scavenger Zone 7	5						
	Check No. 1	3.91									
	2	Check No. 2	5.21								
	3		7.15	Zone 7 Altamont	16						
		Check No. 3	9.49	Zone 7 Patterson Storage Exchange	1,000						
2				Zone 7 Patterson Project Water	96						
	4	Check No. 4	10.68			189	151	49	729		
	5	Check No. 5	12.29								
	6		13.55	Zone 7 Wente #1	189						
			14.16	Zone 7 Wente #2	151						
			14.31	Ising Project Water	49						
		Check No. 6	14.65								
	7		14.78	Zone 7 Arroyo Mocho Project Water	729						
		Check No. 7	16.38								
4	8		16.57	Zone 7 Wente #3	0	100	90	419	102	99	
			16.63	Zone 7 Wente #4	100						
			16.69	Zone 7 Norman Nursery	0						
			16.70	Zone 7 Concannon Project Water	90						
		Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	1,388						
				Pumped into South Bay Aqueduct	0						
				Gravity into South Bay Aqueduct	907						
		Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2 Storage Exchange:	81						
5				Project Water	419						
				Storage Released	0						
				Inflow Release	105						
				East Bay Regional Park Dist.							
				Del Valle Recreation	21						
6				Zone 7 Wente #5	102						
				So. Livermore Project	99	71	2,000	81	105	21	
				So. Livermore Inflow Released	0						
				So. Livermore Stored Exchanged	2,000						
7				Zone 7 - Kalthrof Detjens	71						
		La Costa Tunnel	22.50	ACWD Vallecitos Project Water	0						
			25.97	City of San Francisco San Antonio	0						
8		Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water	2,410	2,410	3,170	1/ 5,000			
				Storage Released	0						
9		Santa Clara Pipeline	35.86	Storage Exchange: S.C.V.W.D. Meter	8,170						

1/ Table A exchange for Semitropic recovery water.

**Table 13. Lake Del Valle**

Daily Operation

(in acre-feet except as noted)

September 2012

Capacity: 77,106 ac-ft

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Aug 31	699.50	37,486									
1	699.65	37,588	102	0	119	0	0	1	16	17	0.00
2	699.67	37,602	14	-83	112	0	0	1	14	15	0.00
3	699.83	37,711	109	13	112	0	0	1	15	16	0.00
4	699.97	37,807	96	4	112	0	0	1	19	20	0.00
5	700.11	37,903	96	1	112	0	0	1	16	17	0.00
6	700.32	38,047	144	41	113	0	0	1	9	10	0.02
7	700.48	38,157	110	12	113	0	0	1	14	15	0.00
8	700.63	38,260	103	0	113	0	0	1	9	10	0.00
9	700.76	38,349	89	-9	113	0	0	1	14	15	0.00
10	700.92	38,460	111	15	113	0	0	1	16	17	0.00
11	700.95	38,481	21	-9	43	0	0	1	12	13	0.00
12	701.03	38,536	55	2	66	0	0	1	12	13	0.00
13	701.17	38,633	97	3	108	0	0	1	13	14	0.00
14	701.20	38,654	21	-1	37	0	0	1	14	15	0.00
15	701.20	38,654	0	11	2	0	0	1	12	13	0.00
16	701.18	38,640	-14	1	0	0	0	1	14	15	0.00
17	701.16	38,626	-14	-1	0	0	0	1	12	13	0.00
18	701.14	38,612	-14	-3	0	0	0	1	10	11	0.00
19	701.02	38,529	-83	-69	0	0	0	1	13	14	0.00
20	701.00	38,515	-14	-5	0	0	0	1	8	9	0.00
21	701.00	38,515	0	15	0	0	0	1	14	15	0.00
22	700.96	38,488	-27	-14	0	0	0	0	13	13	0.00
23	701.01	38,522	34	48	0	0	0	0	14	14	0.00
24	701.00	38,515	-7	7	0	0	0	0	14	14	0.00
25	700.91	38,453	-62	-55	0	0	0	0	7	7	0.00
26	700.59	38,232	-221	39	0	0	247	0	13	260	0.00
27	700.26	38,005	-227	32	0	0	251	0	8	259	0.00
28	700.09	37,889	-116	43	0	0	147	0	12	159	0.00
29	699.92	37,773	-116	29	0	0	134	0	11	145	0.00
30	699.76	37,663	-110	33	0	0	128	0	15	143	0.00
Total				177	105	1,388	0	907	21	388	1,316
											0.02

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations

September 2012

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/		
Aug 31	223.27	51,768											
1	223.37	52,035	267	4	2,102	0	5,121	0	0	7,110	17	35	
2	224.00	53,727	1,692	4	2,082	0	5,133	0	0	6,217	17	-132	
3	224.26	54,427	700	4	1,992	0	5,313	0	495	6,353	18	-90	
4	224.15	54,131	-296	4	1,771	0	6,699	0	2,402	6,149	18	-54	
5	223.54	52,491	-1,640	3	1,674	0	7,219	0	3,894	5,774	18	-37	
6	223.55	52,518	27	3	1,718	0	6,928	0	2,580	5,984	7	-64	
7	223.93	53,538	1,020	3	1,914	0	6,855	0	2,902	5,251	7	-98	
8	223.35	51,982	-1,556	0	2,030	0	6,982	0	3,805	5,909	7	-75	
9	223.69	52,893	911	0	2,071	0	6,852	0	3,780	4,630	7	-47	
10	224.06	53,888	995	0	2,033	0	6,362	0	3,185	4,387	7	-314	
11	222.96	50,939	-2,949	0	2,081	0	5,605	0	3,720	5,539	7	93	
12	222.43	49,527	-1,412	0	1,996	0	5,703	0	2,920	5,815	7	331	
13	221.68	47,546	-1,981	0	1,748	0	5,386	0	2,400	5,659	2	-72	
14	221.17	46,206	-1,340	0	1,526	0	5,623	0	2,380	5,508	2	65	
15	221.27	46,469	263	0	1,485	0	5,480	0	1,463	5,264	2	-103	
16	220.57	44,635	-1,834	0	1,898	0	3,972	0	1,170	5,559	2	-64	
17	221.03	45,839	1,204	0	1,735	0	3,814	0	0	4,830	2	-110	
18	221.92	48,176	2,337	0	1,405	1,090	3,681	0	0	4,881	2	-115	
19	222.63	50,060	1,884	0	1,044	1,630	3,067	0	0	4,684	2	-105	
20	222.96	50,939	879	0	469	1,624	2,891	0	0	4,470	12	-59	
21	223.53	52,464	1,525	0	542	1,620	2,862	0	0	4,202	12	-41	
22	223.18	51,527	-937	0	636	0	3,362	0	0	4,930	12	472	
23	222.37	49,368	-2,159	0	1,228	0	3,636	0	0	5,316	12	-624	
24	221.94	48,229	-1,139	0	1,159	0	2,731	0	0	4,716	12	264	
25	222.15	48,783	554	0	1,429	0	3,733	0	0	4,836	12	-35	
26	221.45	46,941	-1,842	0	1,708	0	3,544	0	1,207	5,116	12	154	
27	221.62	47,388	447	0	1,472	0	3,731	0	0	4,729	15	-234	
28	221.36	46,705	-683	0	1,386	0	3,761	0	0	5,427	15	-49	
29	220.91	45,525	-1,180	0	1,353	0	3,530	0	0	5,514	15	51	
30	220.37	44,114	-1,411	0	1,343	0	3,481	0	0	5,431	15	-89	
Total				-7,654	25	47,030	5,964	143,057	0	38,303	160,190	295	-1,146
Mean cfs				---	1	1,568	199	4,769	0	1,277	5,340	10	-38
Acre-feet				-7,654	50	93,281	11,831	283,750	0	75,972	317,739	586	-2,269

1/ Pump-in located at Mile 79.67R.

2/ Includes 113 AF delivered to DFG at O'Neill Forebay, 1 AF to Parks & Rec., and 472 AF to San Luis Water District.

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

**September 2012**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Aug 31	409.27	598,520						
1	409.16	597,600	-920	0	0	257	0	-207
2	409.09	597,016	-584	0	0	242	0	-52
3	409.06	596,765	-251	495	0	291	0	-331
4	409.63	601,533	4,768	2,402	0	275	0	277
5	410.43	608,249	6,716	3,894	0	155	0	-353
6	410.93	612,460	4,211	2,580	0	218	0	-239
7	411.45	616,852	4,392	2,902	0	244	0	-444
8	412.20	623,207	6,355	3,805	0	248	0	-353
9	412.93	629,415	6,208	3,780	0	248	0	-402
10	413.52	634,450	5,035	3,185	0	147	0	-500
11	414.24	640,614	6,164	3,720	0	241	0	-371
12	414.78	645,252	4,638	2,920	0	239	0	-343
13	415.23	649,126	3,874	2,400	0	211	0	-236
14	415.66	652,837	3,711	2,380	0	209	0	-300
15	415.91	654,998	2,161	1,463	0	218	0	-156
16	416.07	656,382	1,384	1,170	0	213	0	-259
17	416.11	656,728	346	0	0	214	0	388
18	415.84	654,392	-2,336	0	1,090	209	0	121
19	415.39	650,506	-3,886	0	1,630	213	0	-116
20	415.03	647,403	-3,103	0	1,624	205	0	265
21	414.55	643,275	-4,128	0	1,620	203	0	-258
22	414.46	642,502	-773	0	0	200	0	-190
23	414.40	641,987	-515	0	0	201	0	-59
24	414.32	641,300	-687	0	0	211	0	-135
25	414.24	640,614	-686	0	0	219	0	-127
26	414.31	641,215	601	1,207	0	207	0	-697
27	414.31	641,215	0	0	0	192	0	192
28	414.28	640,957	-258	0	0	191	0	61
29	414.22	640,443	-514	0	0	181	0	-78
30	414.17	640,014	-429	0	0	311	0	95
<b>Total</b>			41,494	38,303	5,964	6,613	0	-4,807
<b>Mean cfs</b>			---	1,277	199	220	0	-160
<b>Acre-feet</b>			41,494	75,972	11,831	13,113	0	-9,534

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 12,031 AF, Casa De Fruta 0 AF, and San Benito 1,082 AF.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

**September 2012**

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	14,102	12,478	0	0	0	0	510
2	12,332	10,750	0	0	0	0	480
3	12,602	10,988	0	0	981	981	577
4	12,196	10,588	0	0	4,764	4,764	546
5	11,453	8,967	0	0	7,723	7,723	307
6	11,870	9,410	0	0	5,117	2,355	433
7	10,415	8,825	0	0	5,757	2,986	484
8	11,720	10,108	0	0	7,547	4,804	491
9	9,184	7,563	0	0	7,498	2,025	491
10	8,701	7,105	0	0	6,317	900	291
11	10,986	9,372	0	0	7,379	2,000	478
12	11,534	9,953	0	0	5,792	425	475
13	11,224	9,645	0	0	4,760	2,332	418
14	10,926	9,337	0	0	4,721	2,298	414
15	10,442	8,873	0	0	2,901	644	433
16	11,027	9,452	0	0	2,321	-26	422
17	9,581	8,015	0	0	0	0	424
18	9,682	8,116	2,163	2,163	0	0	414
19	9,291	8,253	3,233	3,233	0	0	422
20	8,866	7,813	3,222	3,222	0	0	406
21	8,334	7,630	3,213	3,213	0	0	403
22	9,778	8,723	0	0	0	0	397
23	10,545	9,496	0	0	0	0	399
24	9,354	8,390	0	0	0	0	418
25	9,592	8,548	0	0	0	0	435
26	10,148	9,103	0	0	2,394	-60	411
27	9,379	8,353	0	0	0	0	381
28	10,765	9,718	0	0	0	0	378
29	10,937	9,889	0	0	0	0	359
30	10,773	9,730	0	0	0	0	616
Total	317,739	275,191	11,831	11,831	75,972	34,151	13,113

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations  
September 2012

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

Capacity 34,560 ac-ft

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Aug 31	321.03	17,530					
1	321.01	17,521	-9	0	0	0	-9
2	320.99	17,513	-8	0	0	0	-8
3	320.98	17,509	-4	0	0	0	-4
4	320.96	17,500	-9	0	0	0	-9
5	320.93	17,487	-13	0	0	0	-13
6	320.91	17,478	-9	0	0	0	-9
7	320.90	17,474	-4	0	0	0	-4
8	320.88	17,466	-8	0	0	0	-8
9	320.86	17,457	-9	0	0	0	-9
10	320.84	17,448	-9	0	0	0	-9
11	320.81	17,436	-12	0	0	0	-12
12	320.79	17,427	-9	0	0	0	-9
13	320.78	17,423	-4	0	0	0	-4
14	320.76	17,414	-9	0	0	0	-9
15	320.74	17,406	-8	0	0	0	-8
16	320.73	17,401	-5	0	0	0	-5
17	320.68	17,380	-21	0	0	0	-21
18	320.67	17,376	-4	0	0	0	-4
19	320.65	17,367	-9	0	0	0	-9
20	320.63	17,358	-9	0	0	0	-9
21	320.62	17,354	-4	0	0	0	-4
22	320.60	17,346	-8	0	0	0	-8
23	320.58	17,337	-9	0	0	0	-9
24	320.55	17,324	-13	0	0	0	-13
25	320.54	17,320	-4	0	0	0	-4
26	320.53	17,316	-4	0	0	0	-4
27	320.51	17,307	-9	0	0	0	-9
28	320.49	17,299	-8	0	0	0	-8
29	320.48	17,294	-5	0	0	0	-5
30	320.46	17,286	-8	0	0	0	-8
Total			-244	0	0	0	-244
Mean cfs			---	0	0	0	---
Acre-feet			-244	0	0	0	-244

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

**September 2012**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Aug 31	602.20						
1	602.20						0
2	Not Observed						0
3	Not Observed						0
4	Not Observed						0
5	Not Observed						0
6	Not Observed						0
7	Not Observed						0
8	Not Observed						0
9	Not Observed						0
10	Not Observed						0
11	Not Observed						0
12	Not Observed						0
13	Not Observed						0
14	602.20	803	0	0	0	0	0
15	Not Observed						0
16	Not Observed						0
17	Not Observed						0
18	Not Observed						0
19	Not Observed						0
20	Not Observed						0
21	602.20	803	0	0	0	0	0
22	Not Observed						0
23	Not Observed						0
24	Not Observed						0
25	Not Observed						0
26	Not Observed						0
27	Not Observed						0
28	Not Observed						0
29	Not Observed						0
30	602.20	803	0	0	0	0	0
<b>Total</b>			0	0	0	0	0
<b>Mean cfs</b>			---	0	0	0	---
<b>Acre-feet</b>			0	0	0	0	0

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries

(In acre-feet)

**September 2012**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		283,750						
3A		San Luis Reservoir		Department of Parks and Recreation		12,031	1,082	0	0		
				San Felipe Division Santa Clara Water District	12,031						
				Casa de Fruita Santa Clara Water District	0						
				San Felipe Division San Benito Water District	1,082						
				Reach 3A Subtotal:	13,113	13,113	0	0	0		
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	1			1	0		
				Cattle Program				0	0		
				Department of Fish & Game	113			62	51		
		70.91 Thru 85.08		San Luis Water District	472	472	0	63	51		
				(Floodwater Inflow)							
				Reach 3 Subtotal:	586	472	0	63	51		
		Dos Amigos Pumping Plant	86.73		317,739						
4	14		89.03			3,880	362	59	152		
			Thru 94.06	San Luis Water District	3,880						
			89.66								
			Thru 89.67	Pacheco Water District	362						
			89.68	Panoche Water District	59						
		Check No. 14	89.70	City of Dos Palos	152						
	15		95.06								
			98.15			245	1,209	5,584			
			Thru 104.20	San Luis Water District	245						
			96.15								
			Thru 102.64	Panoche Water District	1,209						
			102.64	(Floodwater Inflow)							
			102.64	Broadview Water District	0						
			105.22			5,584	11,491	0	0		
			Thru 108.64	Westlands Water District	5,584						
		Check No. 15	108.50								
			Reach 4 Subtotal:	11,491	11,491	0	0	0	0		
			San Felipe Division Total:	13,113	13,113	0	0	0	0		
			Pacheco Water District Total:	362	362	0	0	0	0		
			Broadview Water District Total:	0	0	0	0	0	0		
			City of Dos Palos Total:	152	152	0	0	0	0		
			SLWD Reach 4 Subtotal:	4,125	4,125	0	0	0	0		
			Panoche Water District Total:	1,268	1,268	0	0	0	0		
			SLWD Total:	4,597	4,597	0	0	0	0		
			Westlands WD Reach 4 Subtotal:	5,584	5,584	0	0	0	0		

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**September 2012**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
5	16		110.52	(Reverse flow, Kings River)	0	9,092			1		
				Westlands Water District	9,092						
				Thru	1						
				122.05	0						
				Dept. of Fish and Game @ Lat. 4L	0						
	17		124.18	Dept. of Fish and Game @ Lat. 6L	0	3,916			1		
				Thru	0						
	18		133.81	132.74	Westlands Water District	3,916	7,047		1		
				Westlands Water District	7,047						
				Thru	0						
				142.61	Westlands Water District	6,720		587	1		
				Pleasant Valley Pumping Plant	City of Coalinga	587					
6	19		145.26	143.16	Westlands Water District	6,720	5,937	1/ 1	1		
				143.16	City of Coalinga	587					
				Check No. 18	143.23	Reach 5 Subtotal:	27,363	27,362	0		
									0		
									1		
7	20		156.34	155.64	Reach 6 Subtotal:	6,283	5,940	343	0	0	
					City of Huron	108					
					Kings County Thru WWD 31L-36L	0					
					Westlands Water District	3,258					
	21		156.40	164.69			246	2,143	0	0	
					City of Avenal	246					
					Westlands Water District	2,143					
						265,803					
					Reach 7 Total:	5,755	5,755	0	0	0	
					SWP Const. / GWF Energy	1					
					Westlands WD Total:	43,697					
					City of Coalinga Total:	587					
					City of Huron Total:	111					
					Kings County to Lemoore NAS Through WWD	342					
					City of Avenal Total:	246					
					Total San Luis Field Division Deliveries:	64,591					

1/ Includes GWF Energy water and DWR construction water 22R.

2/ Includes 25 AF "Dry Purchase", and 317 AF Table A.

**Table 20. Consolidated State-Federal San Luis Canal 1/**

Daily Operations

**September 2012**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Aug 31	29,339								
1	29,401	62	0	7,110	111	24	1,253	5,670	-21
2	29,164	-237	0	6,217	111	24	1,254	5,277	329
3	29,334	170	0	6,353	111	24	1,254	5,116	237
4	29,186	-148	0	6,149	111	24	1,254	4,998	163
5	29,437	251	0	5,774	111	24	1,254	4,512	254
6	29,727	290	0	5,984	79	22	791	4,768	-177
7	28,818	-909	0	5,251	79	22	791	4,741	-77
8	29,517	699	0	5,909	79	22	791	4,621	-44
9	29,291	-226	0	4,630	79	22	791	3,933	82
10	28,774	-517	0	4,387	79	22	791	3,995	240
11	28,316	-458	0	5,539	79	22	791	4,844	-33
12	28,328	12	0	5,815	79	23	791	4,950	34
13	28,321	-7	0	5,659	68	24	706	4,728	-137
14	28,714	393	0	5,508	68	24	706	4,270	-242
15	28,717	3	0	5,264	68	24	706	4,369	-96
16	28,888	171	0	5,559	68	24	706	4,765	90
17	28,965	77	0	4,830	68	24	706	4,034	41
18	28,679	-286	0	4,881	68	24	706	4,248	21
19	28,670	-9	0	4,684	68	24	706	3,773	-117
20	28,295	-375	0	4,470	62	12	532	3,780	-273
21	28,723	428	0	4,202	62	12	532	3,167	-213
22	28,300	-423	0	4,930	62	12	532	4,328	-209
23	28,919	619	0	5,316	62	12	532	4,502	104
24	28,775	-144	0	4,716	62	12	532	4,104	-79
25	27,884	-891	0	4,836	62	12	532	4,562	-117
26	27,991	107	0	5,116	63	12	532	4,238	-217
27	27,815	-176	0	4,729	80	28	552	4,223	65
28	28,171	356	0	5,427	80	28	552	4,421	-166
29	28,014	-157	0	5,514	80	28	552	4,704	-229
30	28,849	835	0	5,431	80	28	552	4,367	16
Total		-490	0	160,190	2,339	639	22,680	134,007	-771
Mean cfs		---	0	5,340	78	21	756	4,467	-26
Acre-feet		-490	0	317,739	4,639	1,268	44,985	265,803	-1,534

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 362 AF to Pacheco W.D., 152 AF to the City of Dos Palos and 4,125 AF to San Luis Water District.

3/ Includes 108 AF to the City of Huron, 246 AF to the City of Avenal, 587 AF to the City of Coalinga, 3 AF to City of Huron P&R @ 22R, 342 AF to Lemoore N.A.S. @ 29L, 1 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 3L,

1 AF to DFG @4L, 0 AF to Pilobos Wildlife @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF to DFG @ 7L, 0 AF Non-Project Water, 36,977 AF to Westlands Water District and 6,720 AF to Pleasant Valley Pumping Plant.

**Table 21. San Joaquin Field Division Plant Data**

(in acre-feet)

**September 2012**

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	603	607	77	69	77	7,674	7,017	7,017	6,840
2	599	604	96	90	100	7,363	6,806	6,806	6,737
3	597	604	87	75	87	6,666	6,053	6,053	5,998
4	529	497	74	67	77	6,401	5,572	5,572	5,483
5	569	574	79	70	79	5,481	4,515	4,515	4,390
6	538	589	136	126	136	6,189	5,492	5,492	5,352
7	430	443	99	86	97	6,026	5,205	5,205	5,188
8	485	487	95	85	95	6,543	5,857	5,857	5,758
9	406	422	98	89	99	5,306	4,771	4,771	4,700
10	470	471	61	53	62	5,558	4,819	4,819	4,679
11	584	593	129	105	113	5,977	5,184	5,184	5,079
12	458	459	131	119	127	6,078	5,252	5,252	5,104
13	316	328	116	104	111	5,699	4,961	4,961	4,868
14	253	215	105	94	105	4,975	4,408	4,408	4,283
15	283	225	98	87	99	5,234	4,496	4,496	4,430
16	305	250	100	89	97	6,397	5,915	5,915	5,843
17	287	264	103	93	104	5,403	5,178	5,178	5,080
18	225	226	84	76	86	5,340	4,721	4,721	4,655
19	362	293	85	78	87	4,290	3,439	3,439	3,304
20	310	309	75	77	75	3,347	3,028	3,028	3,049
21	413	386	130	119	129	3,951	3,292	3,292	3,264
22	309	302	83	73	82	5,619	5,163	5,163	5,147
23	320	298	91	82	92	6,747	6,224	6,224	6,203
24	388	359	84	76	83	6,135	5,498	5,498	5,462
25	443	441	105	96	105	6,341	5,297	5,297	5,134
26	494	487	77	69	78	5,582	5,066	5,066	5,041
27	517	440	90	80	91	5,611	4,859	4,859	4,781
28	501	413	94	84	92	5,696	5,147	5,147	4,971
29	462	455	67	59	68	6,519	5,920	5,920	5,817
30	442	415	72	64	72	5,984	5,915	5,915	5,813
Total	12,898	12,456	2,821	2,534	2,805	174,132	155,070	155,070	152,453

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries

September 2012

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	MWD Table A	Brown Valley ID	Other		
	No.	Structure										
7	21	Check No. 21	172.40		265,803							
8C	22		172.66	Empire West Side ID TL - A	0	433				1/ 1 2/ 1		
				County of Kings TL - A	1							
				Tulare Lake Basin WSD TL-A	434							
			175.18	Dudley Ridge WD - 1	403					403		
			177.54	Dudley Ridge WD - 1B	205					205		
			180.64	Tulare Lake Basin WSD - C	0					492		
			180.65	Dudley Ridge WD - 1A	492					169		
			182.99	Dudley Ridge WD - 2	169					2/ 631		
			183.00	Tulare Lake Basin WSD TL - B	631					2		
				County of Kings TL-B	0					662		
31A	8D		184.00	Dudley Ridge WD - Paramount	2							
			184.63	Coastal Branch	12,898							
8D			184.78	Dudley Ridge WD - 3	662	0	0	0	1,933	0		
				Dudley Ridge Reach 8D Total:	1,933							
				Tulare Lake Basin WSD Total:	1,065	433	0	0	0	632		
			Check No. 22	184.82								
			189.69	Kern County Water Agency Lost Hills Water Dist. - 1	4,163	4,163						
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	906							
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	871							
			196.40	Kern County Water Agency Berrenda Mesa - 2	200							
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	1,779							
				K.C.W.A. Reach 9 Subtotal:	7,919							
9	23		Check No. 23	197.05		7,919	0	0	0	0		
			201.24	Kern County Water Agency Lost Hills Water Dist. - 7	672		672					
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	542							
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	3							
			206.99	Kern County Water Agency Semitropic WSD - 3	3,317		1,317			3/ 2,000		
			Check No. 24	207.94								
10A	24		209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	1,563	1,563	3					
			209.78	Kern National Wildlife Refuge USBR BV-1B	3,575							
				Kern County Water Agency Buena Vista WSD 1B	214							
			209.80	KCWA Semitropic WSD	10,279		214			4/ 8,056		
				KCWA Semitropic WSD Penstocks	0							
				USBR Total:	3,575	2,223	3,575					
				K.C.W.A. Reach 10A Subtotal:	16,590							
						6,534	0	0	0	10,056		

1/ Yuba C3.

2/ Conveyance of non-project water Art 55, from Ca. Dept. of Water Resources to Tulare Lake Basin WSD.

3/ City of Tracy CVP water delivered to Semitropic WSD for storage.

4/ Kern-Tulare CVP water delivered to KCWA.

**Table 22. Governor Edmund G. Brown California Aqueduct**  
San Joaquin Field Division, Monthly Deliveries (Continued)

September 2012

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	MWD Table A	Brown Valley ID	Other		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0	544				2/ 5,500		
			214.11	Kern County Water Agency Belridge - 3	544							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	7,696							
				Kern County Water Agency Belridge - 5D	151							
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	8,391							
12D	26		219.58	Kern County Water Agency Belridge - 6	0	504						
				Kern County Water Agency West Kern - 3	504							
		Check No. 26	224.92									
		Check No. 27	231.73									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0	15,602	8,098	3/ 11,036				
			235.75	Kern County Water Agency Buena Vista - 2	0							
			238.04	Kern County WA CVC	34,736							
				DRWD CVC	0							
				Tulare Co.	817							
				Hill Valley	513							
				Fresno Co.	456							
				Tri Valley	171							
				Hacienda								
				DWR Wells	0							
		Check No. 28	238.11									
				1/ Arvin Edison Total:	1,957	0	0	0	0	1,957		
				Reach 12E Subtotal:	36,693	15,602	0	8,098	0	12,993		
13B	29		238.19	Kern Water Bank Inflow	0	448						
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	0							
			243.09	Kern County Water Agency Buena Vista - 3	448							
			Check No. 29	244.54								
	30		249.85	Kern County Water Agency Buena Vista - 4	220	220						
			250.99		174,132							
				K.C.W.A. Reach 13B Subtotal:	668	668	0	0	0	0		
14A	31		254.47	Kern County Water Agency West Kern - 2	0	166						
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	166							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Castaic Lake WA 2012 Table A water to KCWA.

3/ Zone-7 Table A sent to Cawelo WD for storage.

4/ CVC contractor water to AEWS : Fresno Co. 456 AF, Hills Valley 513 AF, Tri Valley 171 AF and Tulare Co. 817 AF.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**September 2012**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.	Structure	Mile		Table A	USBR	MWD Table A	Brown Valley ID	Other
	No.	Structure									
14A	31	Check No. 31	256.14				522	1,747	2,435	0	0
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3		522					
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4		1,747					
		Check No. 32	261.72								
				KCWA Reach 14A Subtotal:	2,435						
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5		3,614	3,614	653	2,057	0	0
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6		653					
		Check No. 33	267.36								
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7		2,057					
			271.27								
				Reach 14B Total:	6,324						
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8		1,717	1,717	587	4,962	0	0
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9		587					
			277.30	Kern County Water Agency Arvin-Edison WSD		4,962					
				Reach 14C Total:	7,266						
		Teerink Pumping Plant	278.13			155,070					
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A		292	292	1,807	0	0	0
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10		1,807					
				Reach 15-A Total:	2,099						
		Chrismen Pumping Plant	280.36			155,070					
16A	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11		0	38	47	35	0	0
			283.95								
			285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12		38					
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A		47					
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13		0					
		Check No. 38	287.09								
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B		35					
			290.21								
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14		968	968	315	1,119	0	0
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15		315					
				Kern County Water Agency Tehachapi Cummings CWD		1,119					
				K.C.W.A. Reach 16A Subtotal:	2,522						
17E		Edmonston Pumping Plant	293.45			152,453					

**Table 23. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

**September 2012**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A	USBR	MWD Table A	Brown Valley ID	Other	
	No.	Structure	Mile							
31A	C-1	Coastal Branch Control	0.02		12,898					
		Las Perillas Pumping Plant	1.16		12,898					
	C-2		3.79	Green Valley Water District	0					
		Badger Hill Pumping Plant	4.27		12,456					
	C-3	Coastal Check No. 3	7.21							
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0					
		Coastal Check No. 4	9.34							
	C-5	Coastal Check No. 5	12.20							
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	521	521				
			14.83	Kern County Water Agency Berrenda Mesa - 1	9,025	5,921				
				Kern County Water Agency Berrenda Mesa - PO	0					
		Devil's Den Pumping Plant	14.86		2,821					
				K.C.W.A. Reach 31A Subtotal:	9,546	6,442	0	0	0	
				K.C.W.A. Total:	100,957	56,244	0	13,060	0	
33A	C-7	Bluestone Pumping Plant	19.05		2,534					
	C-8	Polonio Pass Pumping Plant	26.54		2,805					
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant						
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	2,401	2,401				
		Tank Site 2	58.63	Central Coast:	0					
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	383	383				
		Energy Dissipater	78.12							
	Lopez T.O.			SLOCFC & WCD	0					
			85.86	CCWA Total:	2,784	2,784	0	0	0	
35	C-12	Guadalupe T.O.	102.70	SBCFC & WCD	0					
		Santa Maria T.O.	107.43	SBCFC & WCD	0					
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0					
38				SBCFC & WCD Total:	0					
		Tank Site 5	115.42							

1/ Same Landowner transfer AVEK TO KCWA.

**Table 24. Southern Field Division Plant Data**

(in acre-feet)

**September 2012**

Date	West Branch						East Branch						East Branch Extension				
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pump-back 1/	Generation	Bypass	Tehachapi Afterbay		Generation	Leakage	Bypass Flume				
1	2,516	2,251	0	0	147	0	0	0	3,966	3,288	3,132	0	0	2,560	93	61	31
2	2,290	2,162	0	0	1,451	0	0	0	3,967	3,620	3,443	0	0	2,643	93	61	31
3	2,383	2,394	0	0	2,142	0	0	0	3,174	3,026	2,769	0	0	2,676	92	59	30
4	1,915	2,245	0	0	2,701	0	0	0	3,372	3,434	3,085	0	0	2,559	95	61	32
5	850	588	0	0	784	0	0	0	3,537	3,294	3,185	0	0	2,608	97	71	32
6	2,649	2,457	0	0	3,726	0	0	0	2,512	2,500	2,403	0	0	2,630	99	82	32
7	2,173	2,277	0	0	3,072	0	0	0	2,777	2,340	2,296	0	0	2,684	96	80	30
8	2,651	2,344	0	0	1,035	0	0	0	2,752	2,345	2,347	0	0	2,575	90	81	31
9	1,876	1,929	0	0	1,637	25	0	0	2,826	2,747	2,484	0	0	2,614	96	80	31
10	1,348	2,126	0	0	2,362	1,222	0	0	2,760	2,389	2,232	0	0	2,583	96	79	31
11	1,979	2,165	0	0	2,162	0	0	0	2,926	2,438	2,287	0	0	2,702	97	77	31
12	2,114	2,086	0	0	3,543	0	0	0	2,744	2,554	2,418	0	0	2,599	101	68	30
13	2,020	1,991	0	0	3,426	0	0	0	2,562	2,402	2,630	0	0	2,210	101	60	31
14	1,698	2,067	0	0	2,550	0	0	0	2,306	1,977	1,797	0	0	2,332	98	60	30
15	2,081	2,076	0	0	2,012	0	0	0	2,107	1,760	1,670	0	0	2,421	96	74	30
16	2,276	2,076	0	0	286	65	0	0	3,306	3,173	3,164	0	0	2,700	95	79	31
17	1,975	1,894	0	0	1,991	1,256	0	0	3,019	2,459	2,569	0	0	2,543	93	61	30
18	1,252	922	0	0	2,216	0	0	0	2,942	2,928	2,865	0	0	2,753	91	68	31
19	0	0	0	0	850	0	0	0	2,876	2,625	2,497	0	0	2,796	98	81	31
20	0	0	0	0	590	0	0	0	2,594	2,491	2,211	0	0	2,744	88	80	31
21	760	498	0	0	989	810	0	0	2,395	1,991	2,022	0	0	2,864	83	80	33
22	1,461	1,441	0	0	220	0	0	0	3,281	3,106	3,014	0	0	2,584	82	81	35
23	1,797	744	0	0	545	1,600	0	0	3,967	3,540	3,317	0	0	2,399	83	81	36
24	1,587	1,836	0	0	4,074	819	0	0	3,950	3,620	3,382	0	0	2,427	90	80	34
25	2,079	3,217	0	0	3,311	0	0	0	2,678	2,950	2,927	0	0	2,426	102	81	34
26	2,153	2,193	0	0	2,143	0	0	0	2,537	2,342	2,254	0	0	2,459	102	81	35
27	2,335	2,053	0	0	2,752	0	0	0	2,611	2,233	2,013	0	0	2,650	99	81	36
28	1,803	2,169	0	0	2,113	0	0	0	2,645	2,157	2,052	0	0	2,701	101	81	36
29	2,432	2,189	0	0	174	0	0	0	3,379	3,116	3,055	0	0	2,715	93	81	36
30	2,177	2,191	0	0	142	0	0	0	3,553	3,179	3,077	0	0	2,685	88	82	36
Total	54,630	54,581	0	0	55,146	5,797	0	0	90,021	82,024	78,597	0	0	77,842	2,828	2,232	968

1/ Values supplied by LADWP, not verified by DWR.

**Table 25. Pyramid Lake**  
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

**September 2012**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)	
				Project			Natural	Project		To Piru Creek			
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Aug 31	2,574	165,156											
1	2,576	167,230	2,074	0	2,251	0	5	147	0	3	0	-32	
2	2,576	167,908	678	0	2,162	0	5	1,451	0	3	0	-35	
3	2,577	168,061	153	0	2,394	0	4	2,142	1	3	0	-99	
4	2,576	167,524	-537	0	2,245	0	4	2,701	0	0	0	-85	
5	2,576	167,460	-64	0	588	0	5	784	0	0	0	127	
6	2,575	166,031	-1,429	0	2,457	0	5	3,726	0	3	0	-162	
7	2,574	165,168	-863	0	2,277	0	6	3,072	0	3	0	-71	
8	2,575	166,439	1,271	0	2,344	0	5	1,035	0	3	0	-40	
9	2,575	166,592	153	25	1,929	0	5	1,637	0	3	0	-166	
10	2,576	167,677	1,085	1,222	2,126	0	6	2,362	0	3	0	96	
11	2,576	167,613	-64	0	2,165	0	6	2,162	0	3	0	-70	
12	2,575	165,968	-1,645	0	2,086	0	6	3,543	0	3	0	-191	
13	2,574	164,548	-1,420	0	1,991	0	5	3,426	0	3	0	13	
14	2,573	163,955	-593	0	2,067	0	5	2,550	0	3	0	-112	
15	2,573	163,904	-51	0	2,076	0	5	2,012	0	3	0	-117	
16	2,575	165,765	1,861	65	2,076	0	5	286	0	3	0	4	
17	2,576	166,898	1,133	1,256	1,894	0	6	1,991	0	3	0	-29	
18	2,575	165,599	-1,299	0	922	0	5	2,216	0	3	0	-7	
19	2,574	164,814	-785	0	0	0	4	850	0	3	0	64	
20	2,573	164,093	-721	0	0	0	5	590	0	3	0	-133	
21	2,574	164,472	379	810	498	0	5	989	1	3	0	59	
22	2,575	165,549	1,077	0	1,441	0	6	220	0	3	0	-147	
23	2,576	167,421	1,872	1,600	744	0	6	545	0	3	0	70	
24	2,575	165,828	-1,593	819	1,836	0	6	4,074	0	2	0	-178	
25	2,575	165,638	-190	0	3,217	0	6	3,311	0	2	0	-100	
26	2,575	165,752	114	0	2,193	0	6	2,143	0	2	0	60	
27	2,574	165,016	-736	0	2,053	0	6	2,752	0	2	0	-41	
28	2,574	164,928	-88	0	2,169	0	6	2,113	0	2	0	-148	
29	2,576	166,885	1,957	0	2,189	0	6	174	0	2	0	-62	
30	2,577	168,819	1,934	0	2,191	0	6	142	0	1	0	-120	
Total				3,663	5,797	54,581	0	161	55,146	2	76	0	-1,652

1/ Values supplied by LADWP, not verified by DWR.

**Table 26. Elderberry Forebay**

Daily Operation  
(in acre-feet except as noted)

Capacity: 32,476 ac-ft

September 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Aug 31	1505.64	17,544								
1	1505.81	17,607	63	147	0	0	0	0	-84	
2	1509.80	19,107	1,500	1,451	0	0	0	0	49	
3	1515.20	21,242	2,135	2,142	0	0	0	0	-7	
4	1514.85	21,099	-143	2,701	0	0	0	2,851	7	
5	1507.38	18,190	-2,909	784	0	0	0	3,665	-28	
6	1510.37	19,327	1,137	3,726	0	0	0	2,672	83	
7	1509.91	19,150	-177	3,072	0	0	0	3,229	-20	
8	1508.35	18,555	-595	1,035	0	0	0	1,583	-47	
9	1512.67	20,226	1,671	1,637	0	25	0	0	59	
10	1512.20	20,041	-185	2,362	0	1,222	0	1,314	-11	
11	1508.88	18,756	-1,285	2,162	0	0	0	3,422	-25	
12	1510.31	19,304	548	3,543	0	0	0	3,000	5	
13	1510.75	19,474	170	3,426	0	0	0	3,255	-1	
14	1510.86	19,517	43	2,550	0	0	0	2,507	0	
15	1515.70	21,445	1,928	2,012	0	0	0	0	-84	
16	1516.50	21,773	328	286	0	65	0	0	107	
17	1515.51	21,368	-405	1,991	0	1,256	0	1,177	37	
18	1510.73	19,466	-1,902	2,216	0	0	0	4,159	41	
19	1508.96	18,786	-680	850	0	0	0	1,459	-71	
20	1510.40	19,338	552	590	0	0	0	0	-38	
21	1510.93	19,544	206	989	0	810	0	0	27	
22	1511.45	19,746	202	220	0	0	0	0	-18	
23	1508.57	18,638	-1,108	545	0	1,600	0	0	-53	
24	1512.56	20,183	1,545	4,074	0	819	0	1,755	45	
25	1514.40	20,917	734	3,311	0	0	0	2,554	-23	
26	1516.79	21,893	976	2,143	0	0	0	1,208	41	
27	1513.19	20,433	-1,460	2,752	0	0	0	4,190	-22	
28	1509.32	18,924	-1,509	2,113	0	0	0	3,593	-29	
29	1508.39	18,570	-354	174	0	0	0	517	-11	
30	1508.74	18,703	133	142	0	0	0	0	-9	
Total				1,159	55,146	0	5,797	0	48,110	
1/ Values supplied by LADWP, not verified by DWR.										

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**September 2012**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)		
				From Elderberry Forebay 1/		Natural	Deliveries	Disposition of Natural Inflows			
				Natural	Project						
Aug 31	1491.54	273,737									
1	1490.50	271,636	-2,101	0	0	0	1,944	92	0	-65	
2	1489.54	269,706	-1,930	0	0	0	1,924	0	0	-6	
3	1488.62	267,859	-1,847	0	0	0	1,886	0	0	39	
4	1489.09	268,801	942	0	2,851	0	1,904	0	0	-5	
5	1489.89	270,410	1,609	0	3,665	0	1,986	0	0	-70	
6	1490.25	271,132	722	0	2,672	0	1,897	0	0	-53	
7	1490.93	272,504	1,372	0	3,229	0	1,847	0	0	-10	
8	1490.82	272,281	-223	0	1,583	0	1,750	0	0	-56	
9	1489.98	270,591	-1,690	0	0	0	1,729	0	0	39	
10	1489.74	270,108	-483	0	1,314	0	1,867	0	0	70	
11	1490.50	271,636	1,528	0	3,422	0	1,817	0	0	-77	
12	1491.09	272,827	1,191	0	3,000	0	1,744	0	0	-65	
13	1491.85	274,365	1,538	0	3,255	0	1,753	0	0	36	
14	1492.18	275,035	670	0	2,507	0	1,773	0	0	-64	
15	1491.22	273,090	-1,945	0	0	0	1,922	0	0	-23	
16	1490.18	270,991	-2,099	0	0	0	2,062	0	0	-37	
17	1489.81	270,249	-742	0	1,177	0	1,895	0	0	-24	
18	1490.81	272,261	2,012	0	4,159	0	1,861	0	0	-286	
19	1490.58	271,797	-464	0	1,459	0	1,829	0	0	-94	
20	1489.70	270,027	-1,770	0	0	0	1,760	0	0	-10	
21	1488.74	268,099	-1,928	0	0	0	1,855	0	0	-73	
22	1487.78	266,179	-1,920	0	0	0	1,888	0	0	-32	
23	1486.74	264,107	-2,072	0	0	0	1,968	0	0	-104	
24	1486.61	263,849	-258	0	1,755	0	2,064	0	0	51	
25	1486.86	264,346	497	0	2,554	0	1,908	0	0	-149	
26	1486.57	263,769	-577	0	1,208	0	1,918	0	0	133	
27	1487.69	265,999	2,230	0	4,190	0	1,903	0	0	-57	
28	1488.53	267,679	1,680	0	3,593	0	1,896	0	0	-17	
29	1487.81	266,239	-1,440	0	517	0	1,895	0	0	-62	
30	1486.82	264,266	-1,973	0	0	0	1,890	0	0	-83	
<b>Total</b>				<b>-9,471</b>	<b>0</b>	<b>48,110</b>	<b>0</b>	<b>56,335</b>	<b>92</b>	<b>0</b>	<b>-1,154</b>

1/ Values supplied by LADWP, not verified by DWR.

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

**September 2012**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Rec.	Pool A	Local	Article 14B	
	No.	Structure	Mile								
29A	42	Oso Pumping Plant	1.49		54,630						
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	2	2	4,241	0		
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub						
29G		Warne Power Plant	14.07	(7,011 AF of flow through Gorman Creek Imp. Channel)	54,581						
29H	W3	Pyramid Lake		USFS		25	25	4,241	0		
				Pyramid Recreation (T300)	2						
		Pyramid Dam	17.10	California State Park Piru Fish (T300)	0						
29J	W4	Castaic Power Plant	25.82	(2,799 AF pumpback ) 2/	55,146	47,598	1,300	2,870	301		
		Elderberry Forebay									
		Forebay Dam	28.12								
30 1/	W5	Castaic Lake		California State Park		47,598	1,300	2,870	301		
		Castaic Dam	31.47	Castaic Lake Recreation (T301)	25						
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	51,839						
				Castaic Lake WA 18", 24" & 54" (T303)	1,300						
				Castaic Lake WA Rio Vista T.P. (T304)	2,870						
				MWD-Ventura Co. WPD (T302)	301						
				Disposition of Natural inflows	92						
				Releases to Lagoon	0						
				Reach 30 Subtotal:	56,335	52,069	25	4,241	0	0	
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0						
		Castaic Lagoon Outlet	31.87		180						

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

**Table 29. Silverwood Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**September 2012**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.	Natural To Mojave River			
Aug 31	3349.94	70,120												
1	3350.81	70,941	821	3,132	0	0	6	0	2,560	0	0	255	0	
2	3351.63	71,720	779	3,443	0	0	7	0	2,643	0	1	-13	0	
3	3351.71	71,796	76	2,769	0	0	7	0	2,676	0	0	-10	0	
4	3352.47	72,523	727	3,085	0	0	8	0	2,559	0	0	209	0	
5	3353.11	73,137	614	3,185	0	0	7	0	2,608	0	1	45	0	
6	3352.89	72,926	-211	2,403	0	0	5	0	2,630	0	0	21	0	
7	3352.52	72,571	-355	2,296	0	0	6	0	2,684	0	0	39	0	
8	3352.27	72,331	-240	2,347	0	0	5	0	2,575	0	1	-6	0	
9	3352.36	72,417	86	2,484	0	0	5	0	2,614	0	0	221	0	
10	3352.16	72,226	-191	2,232	0	0	6	0	2,583	0	0	166	0	
11	3351.63	71,720	-506	2,287	0	0	6	0	2,702	0	1	-84	0	
12	3351.40	71,501	-219	2,418	0	0	4	0	2,599	0	0	-34	0	
13	3351.79	71,873	372	2,630	0	0	5	0	2,210	0	0	-43	0	
14	3351.12	71,235	-638	1,797	0	0	5	0	2,332	0	1	-97	0	
15	3350.08	70,252	-983	1,670	0	0	4	0	2,421	0	0	-228	0	
16	3350.53	70,676	424	3,164	0	0	5	0	2,700	0	0	-35	0	
17	3350.61	70,752	76	2,569	0	0	4	0	2,543	0	1	55	0	
18	3350.64	70,780	28	2,865	0	0	5	0	2,753	0	0	-79	0	
19	3350.28	70,440	-340	2,497	0	0	5	0	2,796	0	0	-36	0	
20	3349.55	69,753	-687	2,211	0	0	4	0	2,744	0	1	-149	0	
21	3348.65	68,912	-841	2,022	0	0	5	0	2,864	0	0	6	0	
22	3349.18	69,407	495	3,014	0	0	6	0	2,584	0	0	71	0	
23	3350.39	70,544	1,137	3,317	0	0	6	0	2,399	0	1	226	0	
24	3351.40	71,501	957	3,382	0	0	8	0	2,427	0	0	10	0	
25	3351.93	72,006	505	2,927	0	0	5	0	2,426	0	0	9	0	
26	3351.77	71,853	-153	2,254	0	0	6	0	2,459	0	1	59	0	
27	3350.89	71,017	-836	2,013	0	0	7	0	2,650	0	0	-192	0	
28	3350.08	70,252	-765	2,052	0	0	6	0	2,701	0	0	-110	0	
29	3350.53	70,676	424	3,055	0	0	6	0	2,715	0	0	90	0	
30	3351.12	71,235	559	3,077	0	0	8	0	2,685	0	0	175	0	
Total				1,115	78,597	0	0	172	0	77,842	0	9	541	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**September 2012**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Aug 31	1562.28	73,129				
1	1562.28	73,129	0		175	
2	1562.20	72,980	-149		175	
3	1562.28	73,129	149		175	
4	1562.31	73,186	57		202	
5	1562.28	73,129	-57		174	
6	1562.20	72,980	-149		174	
7	1562.28	73,129	149		174	
8	1562.20	72,980	-149		174	
9	1562.28	73,129	149		174	
10	1562.28	73,129	0		202	
11	1562.28	73,129	0		173	
12	1562.23	73,036	-93		174	
13	1562.14	72,868	-168		157	
14	1561.98	72,570	-298		130	
15	1562.14	72,868	298		130	
16	1562.14	72,868	0		131	
17	1562.06	72,719	-149		160	
18	1561.98	72,570	-149		130	
19	1562.06	72,719	149		130	
20	1561.98	72,570	-149		131	
21	1561.98	72,570	0		129	
22	1561.98	72,570	0		135	
23	1561.92	72,459	-111		134	
24	1561.90	72,421	-38		165	
25	1561.79	72,217	-204		137	
26	1561.90	72,421	204		104	
27	1561.90	72,421	0		104	
28	1561.90	72,421	0		125	
29	1561.79	72,217	-204		104	
30	1561.68	72,013	-204		104	
<b>Total</b>			<b>-1,116</b>	<b>5,530</b>	<b>4,486</b>	<b>-2,160</b>

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

**September 2012**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	Rec.	Article 56C	Transfer	Others	
	No.	Structure	Mile								
17E	40	Edmonston Pumping Plant	293.45		152,453						
	41		298.65	KCWA Tej.-Cas	Stub						
17F		Check No. 41	303.41								
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0						
		Check No. 42	304.99								
18A	43	Alamo Powerplant	305.73	(Includes 0 AF generation, 0 AF plant bypass, and 90,021 AF Tehachapi Bypass)	90,021						
			306.71	AVEK 305th Street West (T287)	0						
19	44		308.05	AVEK 294th Street West (T267)	266						
		Check No. 43	309.70								
19	44		311.84	LADWP Connection	0						
			313.50	AVEK 245th Street West (T269)	0						
19	45		314.81								
			314.93	AVEK 235th Street West (T270)	0						
19	45		315.57	AVEK 225th Street West (T271)	0						
		Check No. 45	319.74								
19	46		323.19	Antelope Valley-East Kern WA Fairmont (T272)	4,931						
				Mojave Water Agency Fairmont (T272)	187						
19	46		323.84								
				Reach 19 Total:	5,384						
20A	47	Check No. 47	326.77								
	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	0						
20A			329.65	Antelope Valley-East Kern WA 120th Street West	Re-moved						
		Check No. 48	330.82								
20A	49	Check No. 49	335.93								
	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	4,084						
20B	50		339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	58						
			340.92	AVEK WA-Temp (T387)	0						
20B	51	Check No. 50	341.51								
	51		342.06	AVEK WA-Temp (T386)	0						
20B	52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0						
		Check No. 52	343.74								
20B	52		346.98	Palmdale WD (T276) Temp.	1,865						
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	115						
21	53	Check No. 53	348.17								
	54	Check No. 54	350.25								
21	55	Check No. 55	352.70								
	56	Check No. 56	354.76								
21	57		354.97	AVEK WA- Delivered through Littlerock Creek ID (T278)	0						
			354.97	Palmdale WD (T276)	0						
21	57		354.97	Palmdale WD (T391)	0						
		Check No. 57	356.93								
22A	58		357.60	AVEK 95th Street East (T279)	0						
			357.72	AVEK 96th Street East (T280)	0						
22A	58		359.76	AVEK East Side Treatment Plant (T281)	256						

1/ Revision made to reclassify Palmdale Table A as Table A and Butte Transfer water under SWPAO Contract.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

**September 2012**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries								
	Beginning and Ending					Table A	Recreation	Article 56C	Transfer	Pool A	Others	Article 14B		
	No.	Structure	Mile											
22B	58	Pearblossom Pumping Plant	360.61		0	491	356	12	0	1/ 1,223				
	59	Check No. 59	366.09											
	60		366.50		AVEK Big Rock Siphon (T368)									
		Check No. 60	373.94											
	61	Check No. 61	379.00											
	62	Check No. 62	384.26											
	63	Check No. 63	389.20		Mojave Water Agency White Road 24" & 42" (T282)									
	64	Check No. 64	395.10											
	65	Check No. 65	400.32											
	66		401.10		Mojave Water Agency Morongo 24" & 42" (T284)									
23		Check No. 66	403.41			12	12	0	0	1/ 1,223				
		Mojave Siphon	405.58		Las Flores Ranch Exchange									
24		Mojave Siphon Powerplant	405.65											
		Silverwood Lake	407.65		MWA CS DAM (T288)									
					California State Park									
					Silverwood (T288)									
		San Bernardino Intake Tunnel	407.70		Creastline-Lake Arrowhead WA									
25					State Project Water (T289)									
		Devil Canyon Powerplant	412.73		Non-Project Water (T289)									
26A	68	Devil Canyon Afterbay Control Structures	412.88			3,300	10,273	20,000	124	307	2/ 3			
					MWD-Rialto (T292)									
					MWD-Rialto (T293)									
					MWD-Rialto (T294)									
					Desert Water Agency Transfer (T293)									
					Coachella Valley WD (T293)									
					Coachella Valley WD (T294)									
					MWD EBX-1 (T290)									
					MWD EBX-1 (T291)									
					San Gabriel Valley MWD (T290)									
EBX	68	East Branch Extension	412.88		San Bernardino Valley MWD (T290)									
					214	2,885	1,000	376	2/ 3					
					3,984									
					596									
					1,264									
					592									
					214									
					2,984									
					596									
					1,264									
28G	28H	Santa Ana Valley Pipeline	425.46		0	8,514	690	2	64	2/ 3				
			433.06		MWD-SC Box Springs (T295)									
28J	69	Lake Perris	440.05		MWD-SC Perris Bypass Pipeline (T296)	4,267	155	2	64	2/ 3				
			442.00		MWD-SC (T297)									
					MWD-SC 54" & 78" (T299)									
					U.S.F.S. Rec. Pyramid (T300).									
			443.44		Ca. St. Pk. Lake Perris Rec. (T298)									
					MWD Total:	99,038	74,797	0	4,241	20,000	0	0	0	

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ Crafton Hills Reservoir construction water.

**Table 32. Water Quality At Selected SWP Locations**

September 2012

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO <sub>3</sub>	39	98	68	68	67	65	64	64	61
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bromide	mg/l	<0.01	0.03	0.49	0.48	0.33	0.36	0.32	0.33	0.20
Calcium	mg/l	8	15	16	16	16	15	15	15	16
Chloride	mg/l as C	1.0	13.0	127.0	135.0	94.0	100.0	87.0	87.0	59.0
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Hardness	mg/l	33.000	88.000	100.000	96.000	95.000	88.000	82.000	89.000	49.000
Iron	mg/l	<0.005	0.009	0.008	0.010	0.006	<0.005	<0.005	<0.005	<0.005
Lead	mg/l as CaCO <sub>3</sub>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	3	12	14	15	13	12	11	12	2
Manganese	mg/l	<0.005	0.017	<0.005	0.010	0.008	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0.090	0.170	0.050	0.130	0.090	0.050	0.010	0.080
Organic Carbon, Dissolved	mg/l	NR	5	3	3	3	3	3	3	3
Organic Carbon, Total	mg/l as N	NR	5.100	2.800	2.800	2.600	2.800	3.000	3.300	3.100
Phosphate-Ortho	mg/l as P	<0.01	0.12	0.06	0.06	0.06	0.06	0.05	0.02	0.04
Phosphorus-Total	mg/l	0	0.17	0.08	0.08	0.09	0.10	0.08	0.26	0.09
Selenium	mg/l	<0.001	<0.001	0.00	0.00	0.00	<0.001	<0.001	<0.001	<0.001
Sodium	mg/l	3.000	18.000	74.000	81.000	66.000	59.000	52.000	56.000	43.000
Specific Conductance	µS/cm	85	267	628	625	486	516	458	458	363
Sulfate	mg/l	2	15	28	25	22	22	20	20	20
Total Dissolved Solids	mg/l	55	154	349	353	269	290	253	252	200
Turbidity	NTU	<1	21	3	2	2	2	2	2	<1
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µS/cm microSiemens per centimeter

NTU - nephelometric turbidity units

µg/l micrograms per liter

NR - Not Reported

**Table 33. Water Quality At Selected Delta Stations**

September 2012

Date	Antioch Tides (feet above mean sea level)		Flow In CFS			Electrical Conductivity in millisiemens/cm									Cl in mg/l	
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md	
1	5.97	4.15	2,353	2,353	7,634	3.73	10.20	0.87	0.70	1.32	1.08	0.42	0.42	0.40	0.40	120
2	5.61	4.07	3,411	2,882	8,375	3.60	9.55	0.74	0.73	1.33	1.12	0.42	0.45	0.40	0.40	125
3	5.76	4.11	3,804	3,189	8,534	3.64	9.41	0.71	0.75	1.41	1.16	0.43	0.47	0.40	0.40	130
4	5.78	4.15	2,695	3,066	8,782	3.78	9.99	0.72	0.77	1.47	1.20	0.44	0.45	0.40	0.40	134
5	5.82	4.22	2,708	2,994	8,762	3.82	10.08	0.59	0.78	1.54	1.25	0.45	0.45	0.40	0.40	133
6	5.95	4.29	3,236	3,034	9,138	3.90	10.15	0.62	0.78	1.63	1.30	0.46	0.48	0.41	0.41	135
7	5.88	4.28	3,213	3,060	9,281	3.81	9.99	0.55	0.78	1.70	1.34	0.47	0.52	0.41	0.41	136
8	5.88	4.33	3,593	3,127	9,467	3.72	10.06	0.50	0.76	1.77	1.38	0.49	0.46	0.42	0.42	136
9	5.88	4.30	3,982	3,222	9,563	3.51	9.60	0.45	0.73	1.77	1.43	0.51	0.47	0.44	0.44	136
10	5.90	4.22	4,956	3,395	9,814	3.42	8.49	0.44	0.71	1.72	1.47	0.51	0.51	0.45	0.45	116
11	6.00	4.33	6,237	3,653	10,004	3.44	8.95	0.54	0.69	1.76	1.52	0.54	0.51	0.45	0.45	116
12	5.99	4.25	6,153	3,862	9,955	3.39	9.28	0.58	0.67	1.71	1.56	0.53	0.50	0.46	0.46	161
13	5.94	4.14	6,129	4,036	9,907	3.22	8.72	0.56	0.65	1.64	1.58	0.55	0.49	0.47	0.47	168
14	5.96	4.26	6,592	4,219	9,872	3.22	9.11	0.60	0.60	1.66	1.60	0.57	0.49	0.48	0.48	170
15	5.99	4.25	6,939	4,400	9,715	3.17	9.03	0.59	0.58	1.63	1.62	0.58	0.51	0.52	0.52	179
16	5.83	4.23	7,258	4,579	9,579	2.99	8.58	0.57	0.57	1.57	1.64	0.59	0.54	0.54	0.54	181
17	6.12	4.32	7,639	4,759	9,422	2.96	8.72	0.63	0.57	1.55	1.65	0.60	0.52	0.54	0.54	185
18	6.13	4.31	7,524	4,912	9,118	2.77	8.46	0.62	0.56	1.45	1.65	0.63	0.50	0.56	0.56	186
19	6.14	4.16	7,215	5,034	8,911	2.59	7.76	0.56	0.56	1.32	1.63	0.64	0.50	0.58	0.58	192
20	6.22	4.14	6,888	5,126	8,159	2.51	7.30	0.58	0.55	1.22	1.60	0.63	0.53	0.59	0.59	199
21	6.18	4.14	6,532	5,193	7,970	2.42	7.13	0.60	0.56	1.20	1.57	0.64	0.58	0.60	0.60	199
22	6.20	4.22	6,426	5,249	7,950	2.46	7.05	0.64	0.57	1.19	1.53	0.65	0.55	0.61	0.61	199
23	6.21	4.30	6,311	5,295	7,869	2.45	7.51	0.67	0.59	1.15	1.48	0.65	0.53	0.62	0.62	199
24	6.12	4.37	5,619	5,309	7,605	2.51	7.90	0.64	0.60	1.14	1.44	0.63	0.53	0.63	0.63	233
25	6.17	4.39	4,913	5,293	7,455	2.52	8.18	0.62	0.61	1.12	1.40	0.65	0.49	0.62	0.62	238
26	6.19	4.43	4,492	5,262	7,246	2.68	8.37	0.73	0.62	1.14	1.35	0.62	0.48	0.61	0.61	242
27	6.13	4.39	4,630	5,239	7,202	2.80	8.47	0.73	0.63	1.15	1.32	0.62	0.47	0.59	0.59	246
28	6.06	4.55	4,564	5,215	7,233	2.94	9.29	0.82	0.64	1.17	1.28	0.62	0.47	0.58	0.58	241
29	6.02	4.39	4,295	5,183	6,942	2.79	9.05	0.71	0.65	1.13	1.25	0.60	0.47	0.56	0.56	241
30	5.81	4.12	4,555	5,162	7,073	2.62	7.91	0.62	0.66	1.08	1.21	0.59	0.48	0.57	0.57	241

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

r = Excess delta conditions with export/inflow ratio concerns.

N.C. = Not computed due to insufficient data.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP**

**September 2012**

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 20, 2012	Metolachlor	0.70
California Aqueduct At Banks Pumping Plant	September 19, 2012	2,4-D	0.10
O'Neill Forebay Outlet Check 13	September 18, 2012	2,4-D	0.20
Delta Mendota Canal At McCabe Road	September 18, 2012	2,4-D	0.20
California Aqueduct Near Kettleman City (Check 21)	June 19, 2012	Simazine	0.02
California Aqueduct At Near Highway 119 (Check 29)	March 21, 2012	Diuron	1.70
California Aqueduct at Tehachapi Afterbay (Check 41)	June 20, 2012	Simazine	0.02
California Aqueduct At Devil Canyon 2nd Afterbay	June 20, 2012	Simazine	0.02

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	September 2012	
	Generation	Load			Total Load	SWP Load			
	1	7,876,440	14,476	42,637	47,580	2,969,128	2,665,128	592,704	7,750
2	7,872,051	14,333	43,667	47,553	3,057,872	2,753,872	523,852	7,768	
3	7,892,181	14,355	41,465	45,379	2,927,744	2,623,744	525,147	7,767	
4	7,877,078	14,410	50,999	54,577	3,740,104	3,436,104	488,319	7,789	
5	7,883,986	14,410	43,212	43,482	3,909,008	3,605,008	491,645	7,766	
6	7,931,385	5,830	45,744	55,379	3,873,952	3,569,952	520,080	7,788	
7	7,986,077	0	45,261	47,938	3,930,824	3,626,824	629,871	7,783	
8	7,978,905	0	41,776	51,098	3,924,024	3,620,024	615,391	7,777	
9	7,971,887	0	46,374	48,515	3,910,960	3,606,960	497,883	7,763	
10	7,964,506	0	51,706	52,990	3,537,232	3,233,232	491,193	7,746	
11	7,922,827	0	50,725	50,025	3,017,648	2,713,648	428,813	3,286	
12	7,871,897	0	52,621	54,563	3,301,056	3,301,056	376,170	4,793	
13	7,876,066	0	45,905	47,284	3,014,616	3,014,616	465,900	7,487	
14	7,858,070	0	44,449	47,942	3,009,184	3,009,184	469,470	2,567	
15	7,840,987	0	43,831	47,392	2,957,496	2,957,496	425,396	710	
16	7,827,831	0	49,067	52,491	2,185,416	2,185,416	445,642	571	
17	5,359,552	0	46,993	47,896	2,115,872	2,115,872	415,996	506	
18	4,722,058	0	45,287	47,546	2,209,552	2,209,552	444,819	503	
19	4,722,025	0	47,511	57,058	1,876,752	1,876,752	487,157	483	
20	4,722,993	0	44,798	46,070	1,852,800	1,852,800	481,111	504	
21	4,537,687	0	43,089	51,801	1,937,024	1,937,024	489,787	497	
22	4,727,030	0	48,488	51,246	1,921,256	1,921,256	448,067	524	
23	4,712,686	0	39,537	44,473	1,936,384	1,936,384	472,263	533	
24	4,721,398	0	47,001	51,090	1,937,528	1,937,528	492,058	526	
25	4,732,596	0	45,316	47,299	2,093,264	2,093,264	377,532	504	
26	4,723,961	0	41,823	45,316	2,206,576	2,206,576	71,915	485	
27	4,707,164	0	44,825	51,620	1,959,136	1,959,136	103,417	521	
28	4,706,141	0	40,983	47,498	1,965,584	1,965,584	376,309	601	
29	4,729,912	0	38,855	47,513	1,895,976	1,895,976	501,418	578	
30	4,729,087	0	32,345	45,592	1,932,024	1,932,024	478,993	561	
Total	192,986,464	77,814	1,346,293	1,476,206	81,105,992	77,761,992	13,628,321	104,441	

**Table 36. San Luis Field Division Energy Data**

(in kWh)

September 2012

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,875,636	1,659,636	0	0	18,326	18,326
2	1,683,477	1,467,477	0	0	18,733	18,733
3	1,686,474	1,470,474	0	0	227,293	227,293
4	1,638,387	1,422,387	0	0	1,037,289	1,037,289
5	1,548,131	1,212,131	0	0	1,678,248	1,678,248
6	1,621,528	1,285,528	0	0	1,111,715	511,715
7	1,414,579	1,198,579	0	0	1,246,443	646,443
8	1,569,947	1,353,947	0	0	1,650,594	1,050,594
9	1,223,402	1,007,402	0	0	1,644,115	444,115
10	1,177,292	961,292	0	0	1,399,387	199,387
11	1,470,679	1,254,679	0	0	1,646,227	446,227
12	1,564,607	1,348,607	0	0	1,294,986	94,986
13	1,526,353	1,338,353	0	0	1,081,960	529,960
14	1,471,052	1,338,052	0	0	1,075,723	523,723
15	1,435,180	1,302,180	0	0	709,379	157,379
16	1,505,574	1,372,574	0	0	545,875	-6,125
17	1,321,024	1,188,024	0	0	19,734	19,734
18	1,335,096	1,202,096	347,182	347,182	6,567	6,567
19	1,296,011	1,234,011	516,637	516,637	0	0
20	1,198,395	1,136,395	511,687	511,687	11	11
21	1,124,248	1,070,248	508,189	508,189	0	0
22	1,314,581	1,252,581	22	22	20,218	20,218
23	1,437,944	1,375,944	0	0	19,877	19,877
24	1,268,384	1,207,384	0	0	19,932	19,932
25	1,320,133	1,258,133	0	0	20,317	20,317
26	1,395,085	1,333,085	0	0	538,494	-13,506
27	1,345,604	1,283,604	0	0	20,207	20,207
28	1,472,083	1,410,083	0	0	19,943	19,943
29	1,492,322	1,430,322	0	0	19,690	19,690
30	1,486,582	1,424,582	0	0	19,987	19,987
Total	43,219,791	38,799,791	1,883,717	1,883,717	17,111,270	7,751,270

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Plant Energy Load Data**

(in kWh)

September 2012

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	47,279	121,181	54,228	49,807	54,027	1,847,417	1,882,582	4,204,420	15,309,945
2	47,684	120,821	66,682	63,947	69,047	1,753,142	1,843,492	4,101,031	15,032,466
3	46,742	119,512	61,621	55,318	60,368	1,588,111	1,636,279	3,662,934	13,414,410
4	41,759	106,828	52,516	48,550	53,492	1,531,226	1,535,990	3,386,119	12,253,977
5	44,082	110,388	55,526	51,114	55,610	1,322,149	1,253,804	2,751,650	9,841,446
6	43,635	115,913	92,329	88,906	93,196	1,489,019	1,498,784	3,322,847	11,945,637
7	34,685	90,878	68,417	62,168	67,298	1,453,837	1,442,183	3,154,789	11,582,757
8	38,004	96,241	66,263	61,113	66,423	1,560,467	1,604,185	3,536,808	12,870,036
9	32,890	84,460	68,619	63,912	69,085	1,254,168	1,291,064	2,881,791	10,500,273
10	36,968	90,734	43,069	38,942	43,890	1,312,486	1,325,599	2,896,641	10,527,651
11	45,779	117,427	78,866	74,684	78,498	1,428,255	1,416,197	3,127,091	11,358,495
12	35,600	92,370	88,491	83,185	87,414	1,464,568	1,439,971	3,188,416	11,405,232
13	24,754	67,064	79,026	73,466	76,249	1,366,612	1,356,435	2,976,435	10,868,121
14	20,390	52,998	72,500	67,467	73,126	1,190,495	1,225,532	2,700,148	9,584,406
15	22,554	56,649	68,110	62,650	68,763	1,246,468	1,207,856	2,705,703	9,913,185
16	23,972	59,439	67,888	63,617	67,417	1,538,813	1,605,298	3,554,177	13,045,887
17	22,410	57,384	71,872	66,792	71,958	1,300,882	1,408,853	3,118,665	11,360,844
18	18,255	44,294	59,037	54,980	59,849	1,280,430	1,296,630	2,852,432	10,381,068
19	27,566	68,544	59,578	56,340	60,278	1,033,963	945,934	2,081,013	7,379,208
20	23,910	61,672	52,695	47,600	52,279	910,274	851,501	1,869,846	6,794,415
21	32,901	80,487	89,290	84,114	88,867	950,632	916,186	2,000,251	7,130,268
22	24,726	60,860	57,802	52,935	57,529	1,357,616	1,395,169	3,145,868	11,494,683
23	25,675	63,464	63,573	59,099	63,976	1,611,905	1,671,662	3,768,479	13,852,674
24	30,652	71,816	58,504	54,430	57,631	1,403,557	1,483,358	3,326,939	12,209,643
25	35,482	85,311	73,119	68,677	72,498	1,442,210	1,451,624	3,180,012	11,521,359
26	37,808	96,208	54,247	50,218	54,684	1,341,079	1,372,444	3,051,389	11,094,435
27	40,124	101,586	62,798	57,663	63,407	1,341,851	1,319,515	2,958,692	10,703,772
28	39,091	91,318	65,414	60,800	64,621	1,360,031	1,393,225	3,090,417	11,139,147
29	36,565	91,225	47,734	43,815	48,050	1,562,512	1,596,058	3,548,754	12,987,081
30	34,010	85,465	50,755	47,129	50,819	1,462,151	1,576,879	3,541,802	12,993,642
Total	1,015,953	2,562,536	1,950,569	1,813,439	1,950,350	41,706,328	42,244,292	93,685,559	340,496,163

**Table 38. Southern Field Division Energy Data**

(in kWh)

September 2012

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	663,491	1,259,391	2,112,000	0	2,200,074	3,171,586	258,012	57,641	50,315	5,660
2	604,239	1,233,131	2,112,000	0	2,426,717	3,263,710	291,396	57,581	50,312	5,672
3	627,969	1,392,401	2,400,000	0	2,045,309	3,318,188	226,987	58,695	50,294	5,720
4	509,038	1,319,077	2,400,000	0	2,308,793	3,171,553	249,210	58,873	50,357	5,793
5	227,163	354,178	2,400,000	0	2,191,938	3,210,746	256,659	60,258	58,707	5,701
6	698,120	1,391,348	2,400,000	0	1,673,514	3,197,268	188,004	62,016	67,370	5,697
7	572,561	1,289,615	1,728,000	0	1,564,280	3,294,659	176,130	61,000	67,416	5,726
8	697,393	1,321,407	1,728,000	0	1,668,206	3,188,952	182,002	55,853	67,414	5,731
9	493,324	1,102,451	1,728,000	0	1,835,431	3,222,720	197,288	60,329	66,764	5,747
10	480,390	1,204,705	1,968,000	0	1,606,447	3,179,617	168,836	60,645	66,477	5,726
11	520,038	1,220,918	1,968,000	0	1,637,614	3,312,716	175,585	61,081	63,660	5,719
12	556,275	1,177,073	1,968,000	0	1,706,711	3,199,795	195,352	63,681	56,471	5,687
13	531,707	1,135,337	1,968,000	0	1,607,639	2,714,900	199,022	63,393	50,325	5,735
14	532,121	1,173,606	1,968,000	0	1,325,574	2,870,672	140,601	62,064	50,432	5,768
15	548,619	1,174,889	1,968,000	0	1,192,534	2,975,864	128,705	60,646	62,350	5,752
16	599,489	1,177,848	1,968,000	0	2,114,529	3,294,180	256,519	59,862	54,959	5,719
17	550,005	1,063,287	1,824,000	0	1,648,638	3,134,502	211,240	57,741	50,366	5,671
18	335,486	568,129	1,824,000	0	2,005,228	3,368,765	234,153	55,946	56,201	5,694
19	7,031	0	1,824,000	0	1,754,648	3,429,086	200,740	60,526	67,463	5,804
20	7,287	0	48,000	0	1,678,113	3,380,317	172,955	54,902	66,915	5,863
21	205,176	300,443	0	0	1,340,084	3,497,692	165,667	50,349	67,505	5,855
22	388,053	806,458	0	0	2,083,142	3,141,817	254,366	50,348	67,433	5,823
23	482,381	424,761	0	0	2,374,505	2,944,141	285,747	51,075	67,473	5,856
24	422,255	1,044,841	1,968,000	0	2,429,245	2,971,645	274,079	55,469	67,402	5,844
25	548,699	1,802,388	3,048,000	0	1,993,628	2,980,980	241,531	63,114	67,303	5,785
26	564,199	1,219,163	2,064,000	0	1,590,826	3,016,501	175,764	63,186	67,289	5,742
27	612,320	1,143,110	2,064,000	0	1,521,782	3,247,236	151,695	62,269	67,373	5,837
28	474,155	1,244,581	2,064,000	0	1,464,626	3,306,766	157,071	61,962	67,345	5,799
29	616,132	1,217,273	2,064,000	0	2,096,156	3,349,699	256,498	55,741	67,339	5,804
30	572,975	1,218,553	2,064,000	0	2,144,060	3,272,987	257,603	53,155	67,451	5,851
Total	14,648,088	30,980,359	53,640,000	0	55,229,989	95,629,262	6,329,416	1,759,398	1,848,483	172,779

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.